NB_MB Level 1 Training Materials

(version 1.7)

Overview

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- Chapter 2. Customer Induced Damage (CID) criteria ……P6~P28
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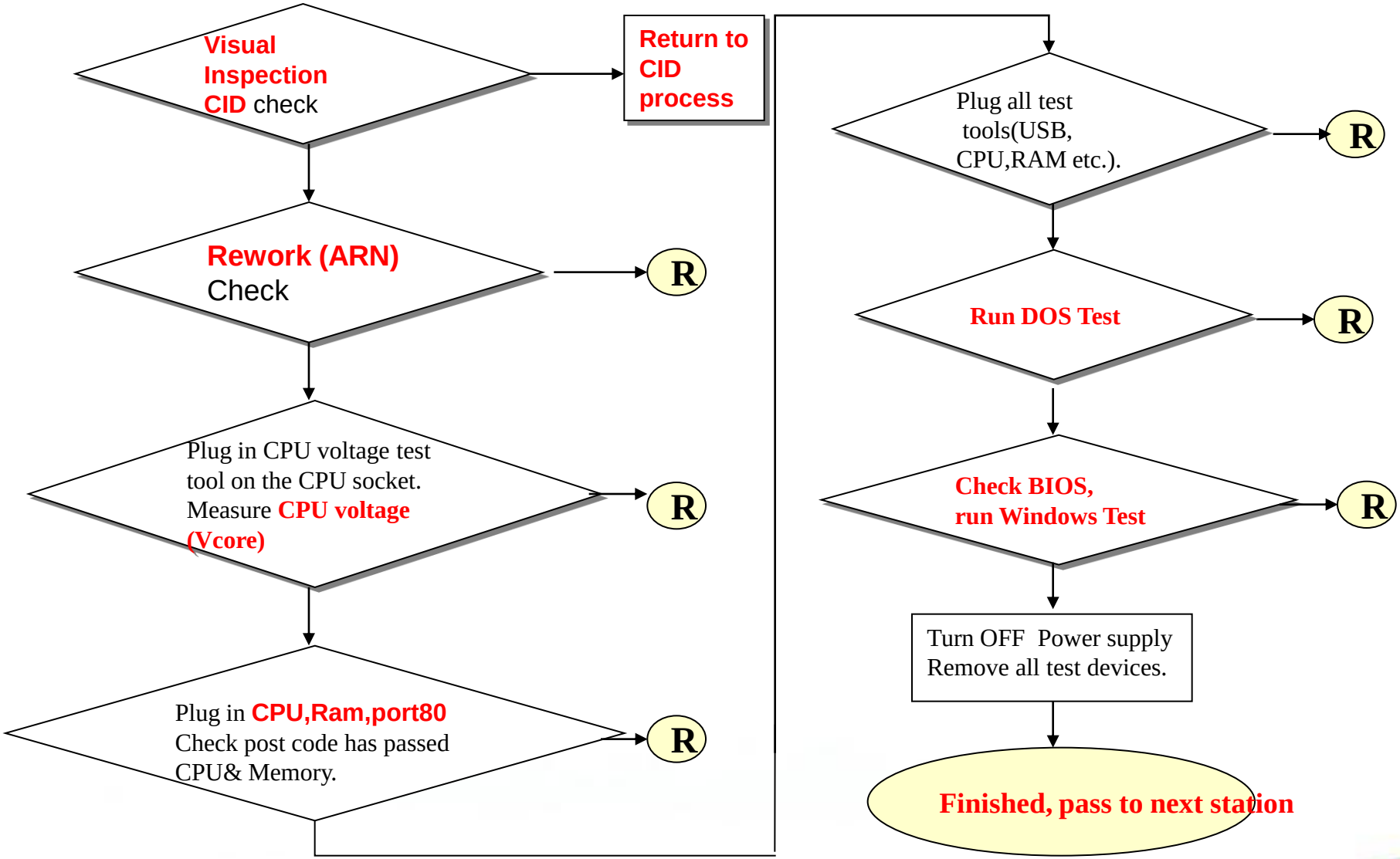
- Chapter 4. Pretest operate description …… P35~P79
- Chapter 5.WTP TEST SOP……P80

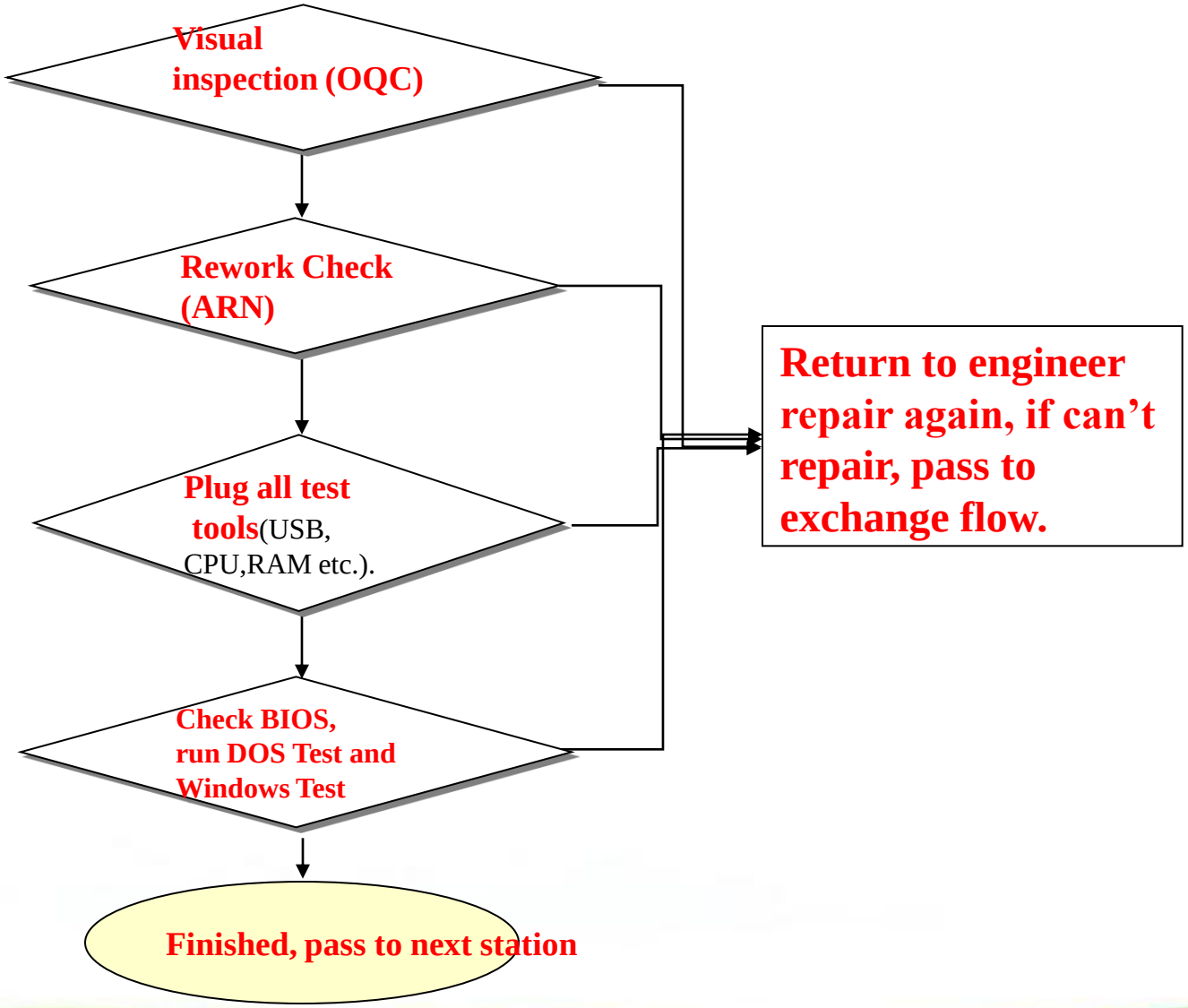
Chapter 1
Testing Flow Chart

1. Pretest Flow Chart


Visual Inspection CID check
Return to CID process
Rework (ARN) Check
R
Plug in CPU voltage test tool on the CPU socket. Measure CPU voltage (Vcore)
R
Plug in CPU,Ram,port80 Check post code has passed CPU& Memory.
R
Plug all test tools(USB, CPU,RAM etc.).
R
Run DOS Test
R
Check BIOS, run Windows Test
R
Turn OFF Power supply Remove all test devices.
Finished, pass to next station

R **Means Return to RMA or Pass to Repair Engineer.**

2. Final Test Flow Chart


Visual inspection (OQC)
Rework Check (ARN)
Plug all test tools(USB, CPU,RAM etc.).
Check BIOS, run DOS Test and Windows Test
Finished, pass to next station
Return to engineer repair again, if can't repair, pass to exchange flow.

Chapter 2
Customer Induced Damage (CID) criteria

CID Outline

1. *PCB Trace Scratched*
2. *PCB Broken*
3. *Damaged capacitors, resistors, inductors, small passive components, socket, etc.*
4. *PCB & Component Oxidation*
5. *PCB Burned*
6. *Component Burned*
7. *Missing Component*
8. *S/N Damage*
9. *Dirt*
10. *CID & O.O.W. service process flow chart*

1-1 PCB Trace Scratched

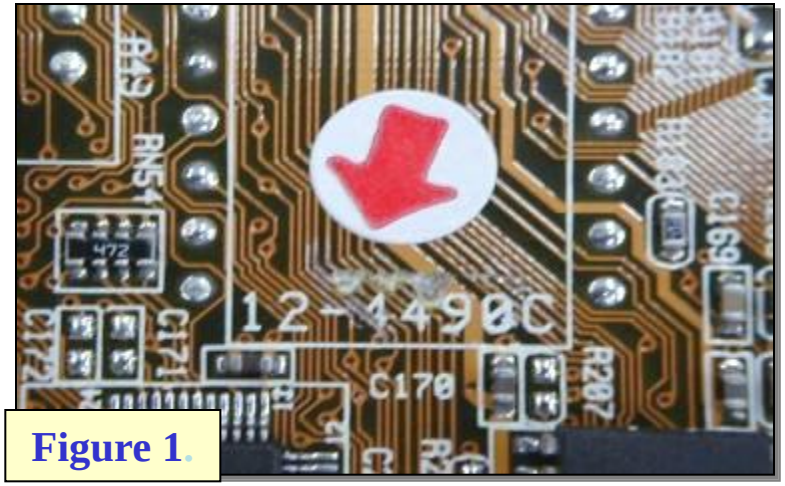


Figure 1.

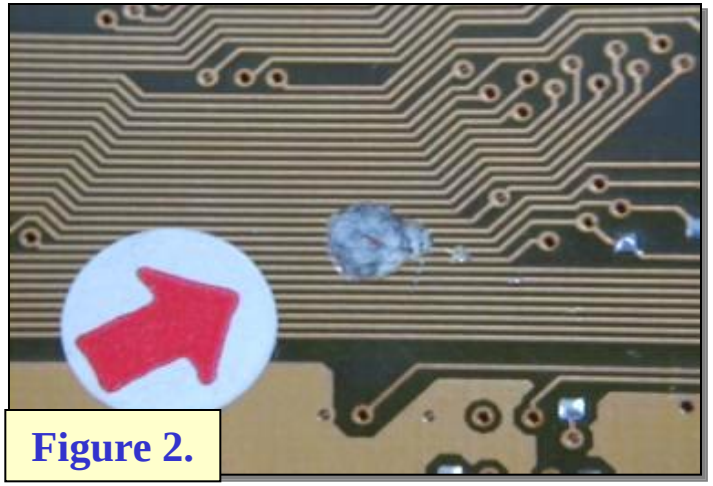


Figure 2.

Figure 3.

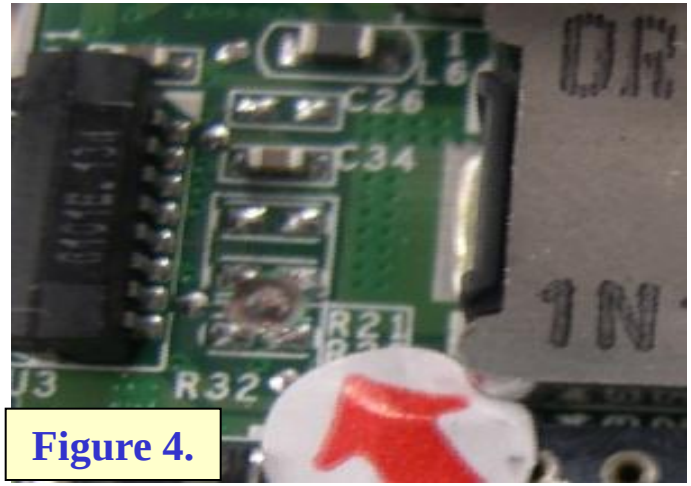


Figure 4.

1-2 PCB Trace Scratched

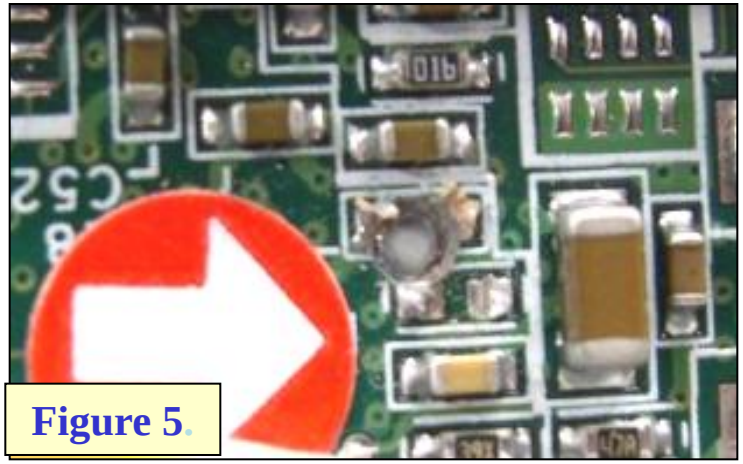


Figure 5.

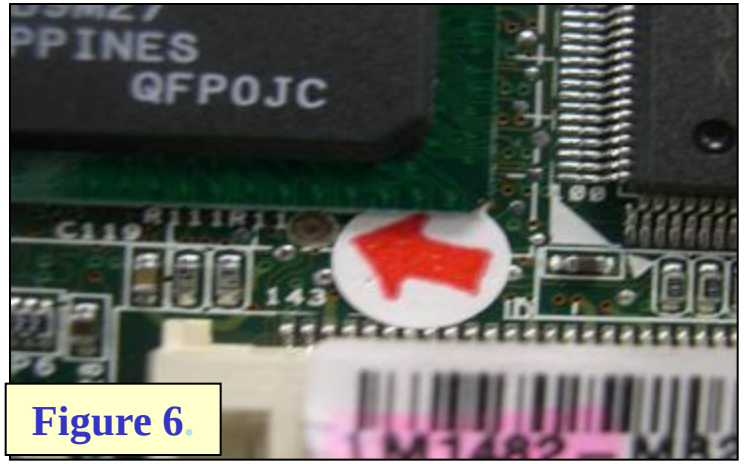


Figure 6.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
PCB Trace Scratched [Figure 1~6]	PCB Trace Scratched and PCB broken inside	Rejected	-	-	-
	PCB Trace Scratched and PCB no broken inside under 1 lines trace (If customer request)	Accepted	-	Charge	Charge

1-3 PCB Trace Scratched

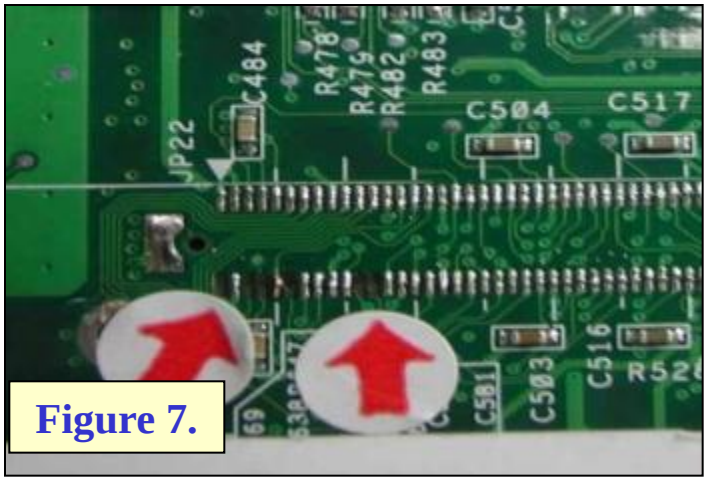


Figure 7.

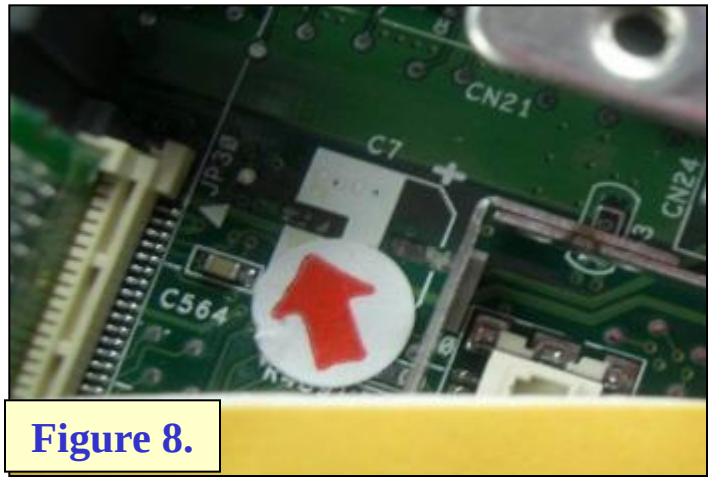


Figure 8.

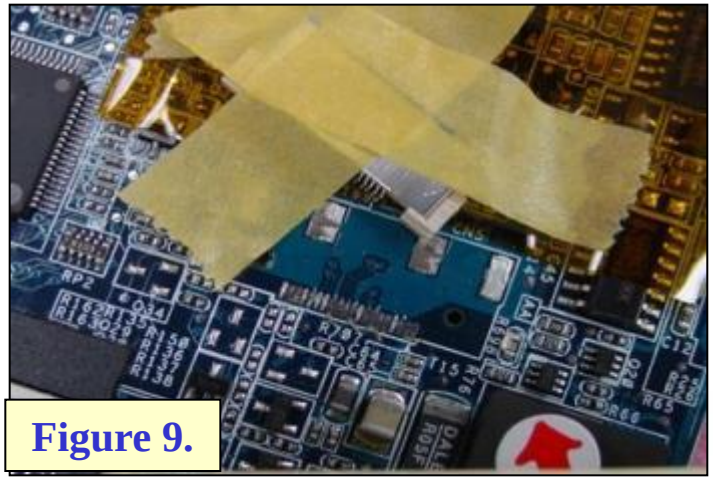


Figure 9.

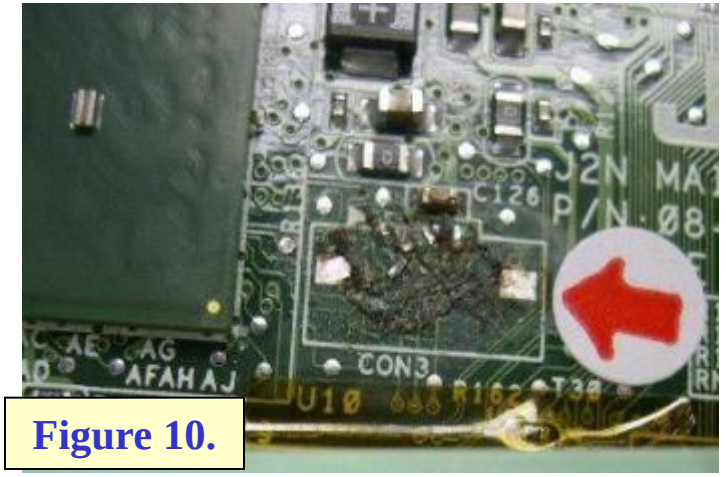


Figure 10.

1-4 PCB Trace Scratched

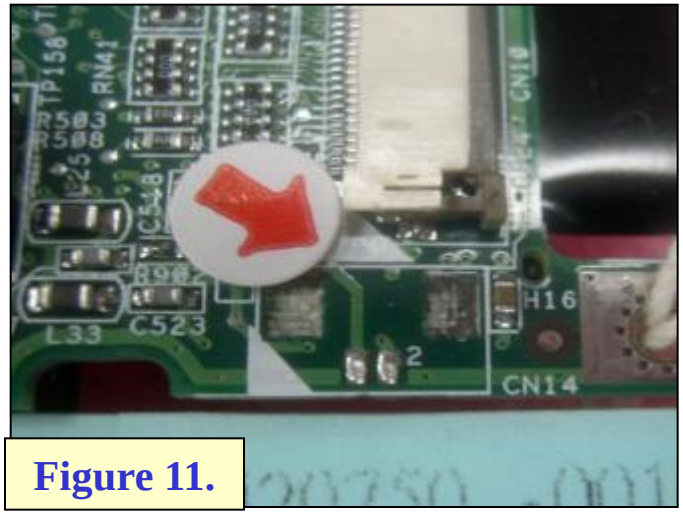


Figure 11.

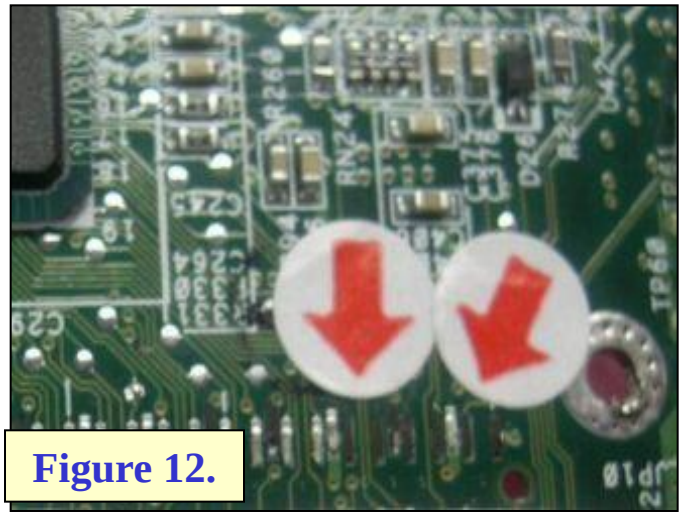


Figure 12.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
PCB Trace Scratched [Figure 7~12]	PCB PAD Broken	Rejected	-	-	-
	PCB PAD Broken Under 2pcs PAD and the same PCB side (If customer request)	Accepted	-	Charge	Charge

2-1 PCB Broken

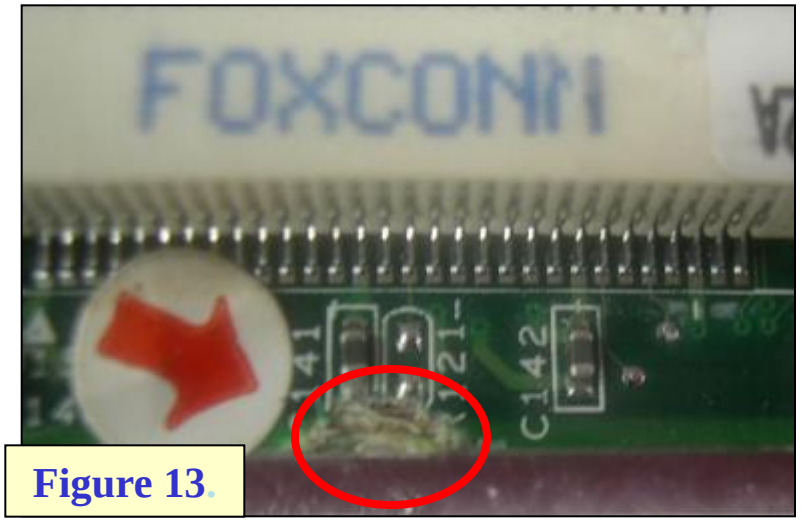


Figure 13.

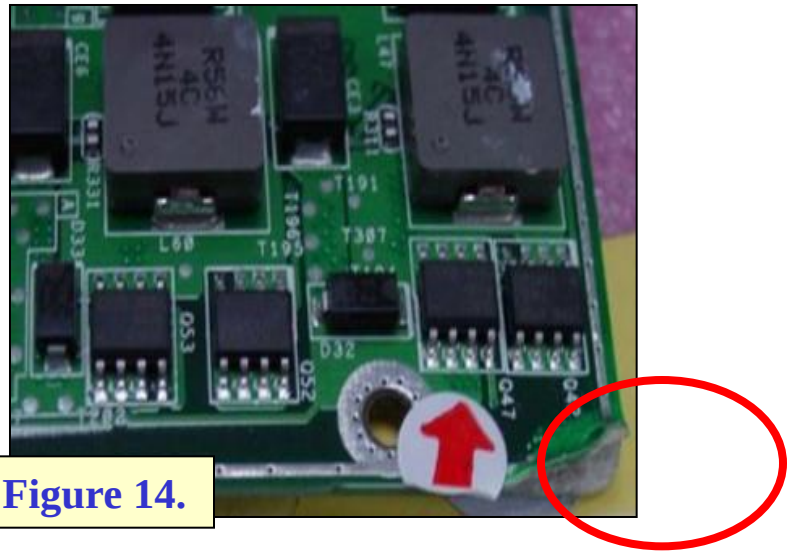


Figure 14.

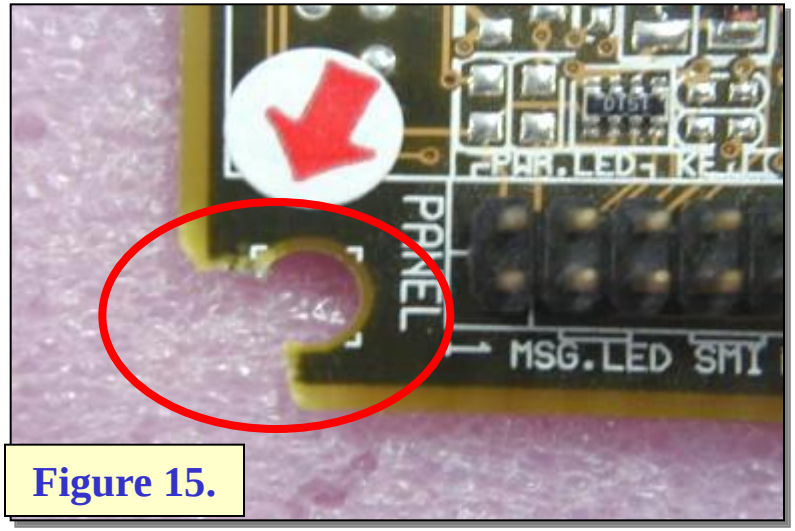


Figure 15.

2-2 PCB Broken

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
PCB Broken [Figure 13~15]	The broken part already destroy PCB	Rejected	-	-	-

3-1 Damaged capacitors, resistors, inductors, small passive components, socket, etc.

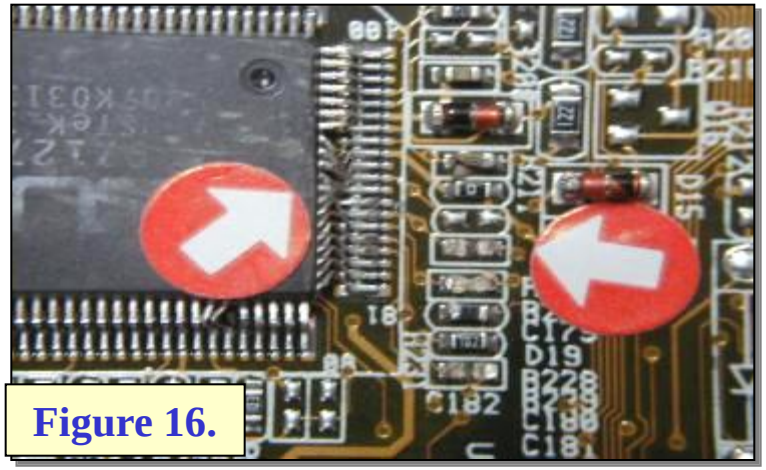


Figure 16.

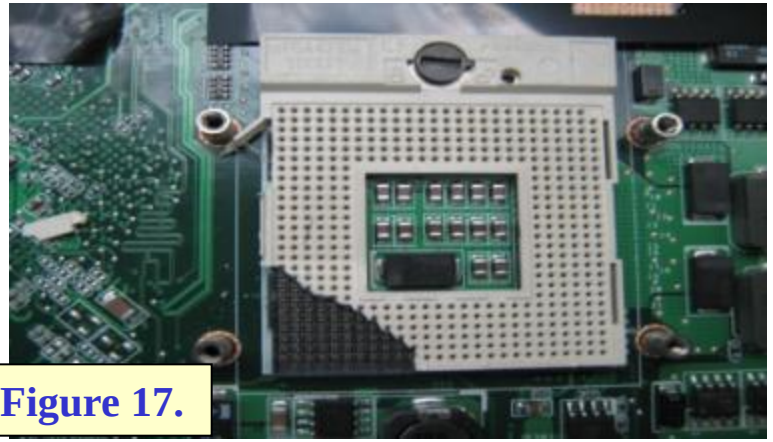


Figure 17.

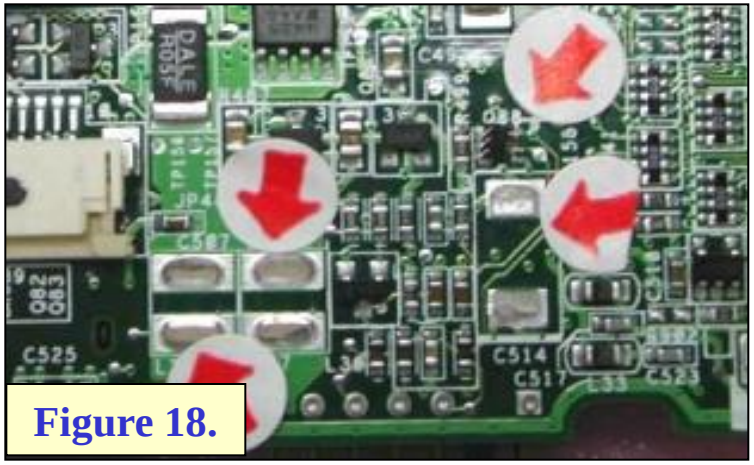


Figure 18.

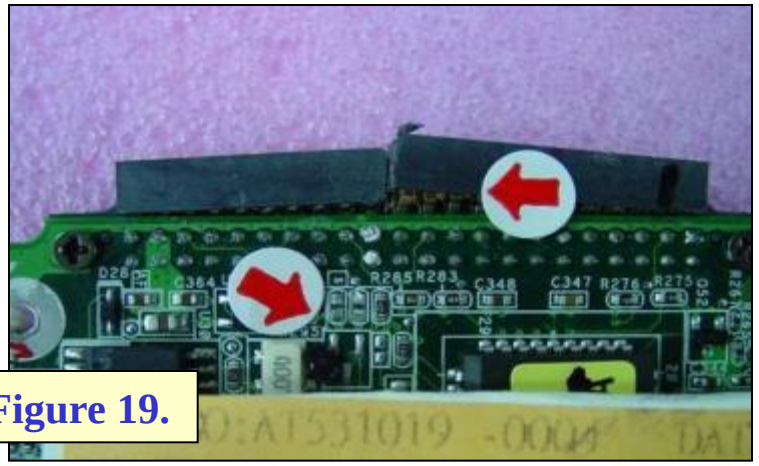


Figure 19.

3-2 Damaged capacitors, resistors, inductors, small passive components, socket, etc.

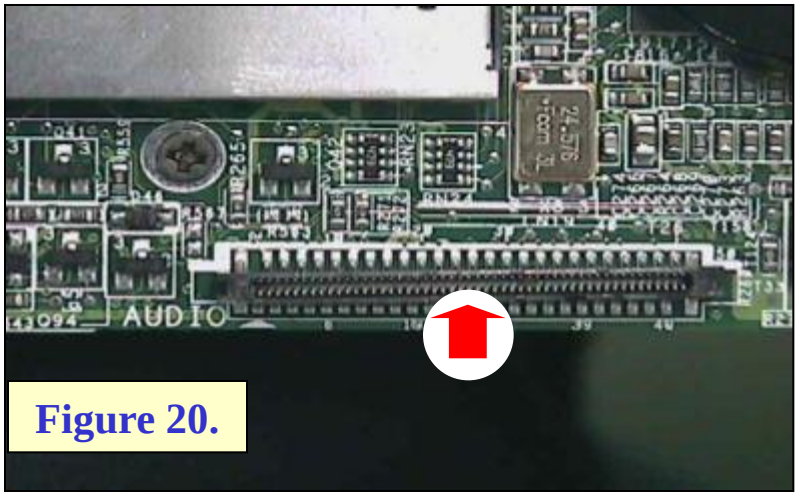


Figure 20.

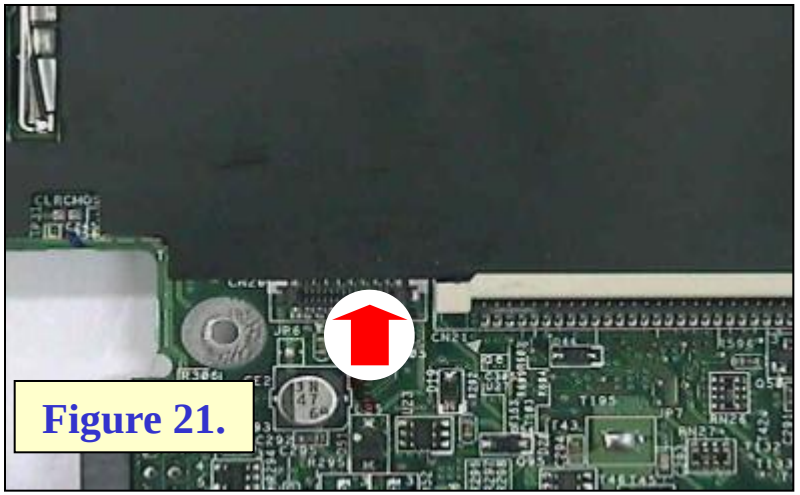


Figure 21.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
Damaged Component [Figure 16~21]	If under 3pcs impacted broken components slightly and PCB is ok without any broken	Accepted	-	Charge	Charge
	If it's serious impacted or PCB broken more than 3 lines	Rejected	-	-	-

4-1 PCB & Component Oxidation

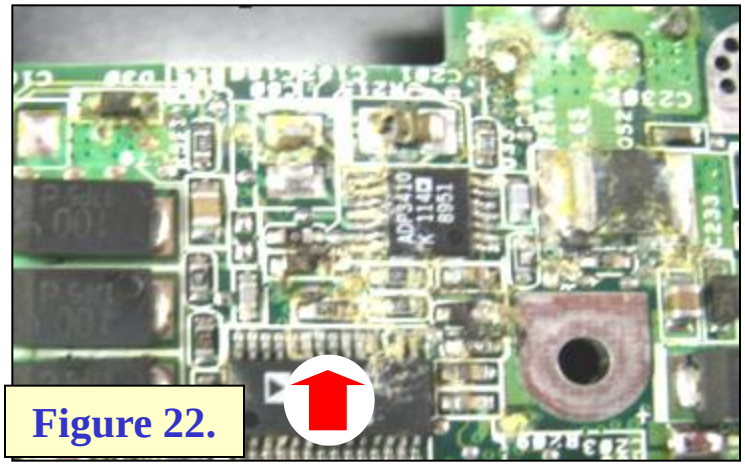


Figure 22.

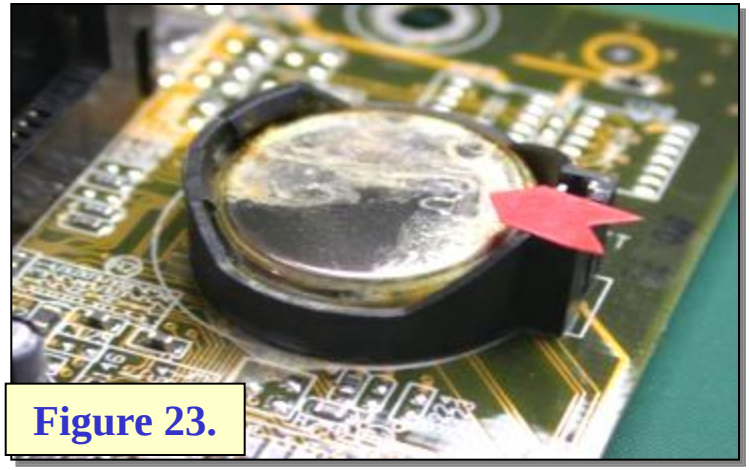


Figure 23.

Figure 24.

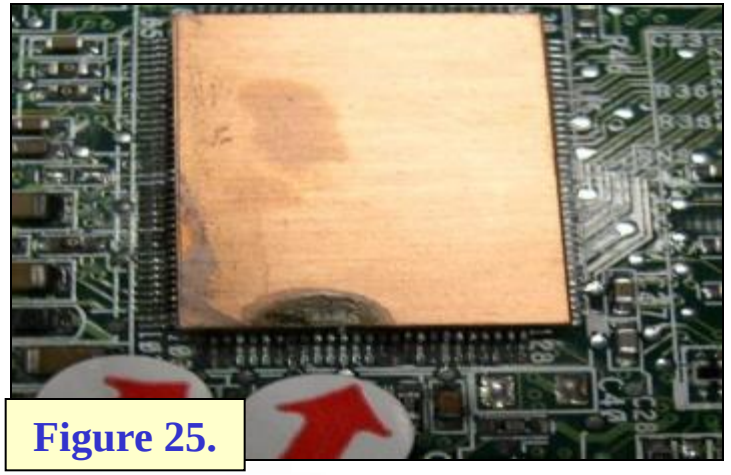


Figure 25.

4-2 PCB & Component Oxidation

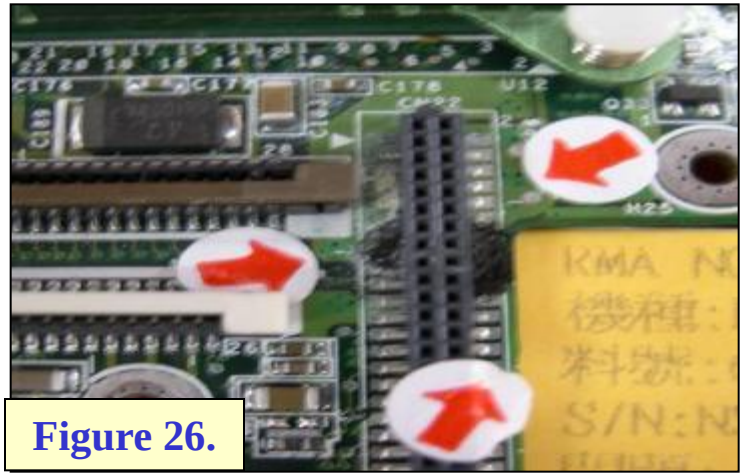


Figure 26.

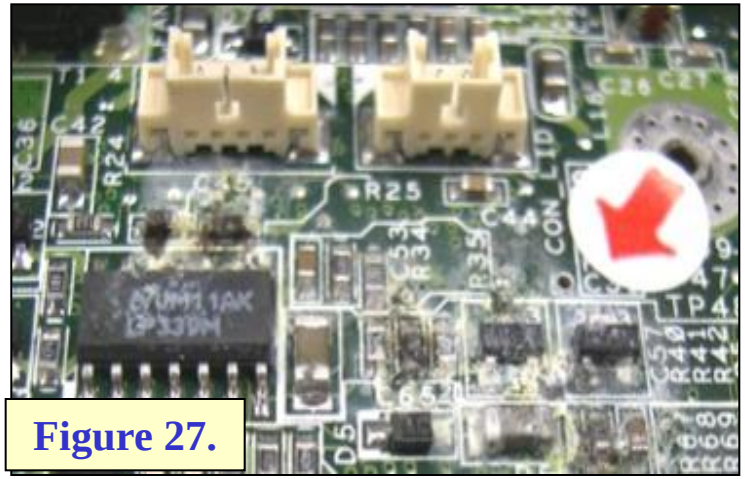


Figure 27.

Figure 28.

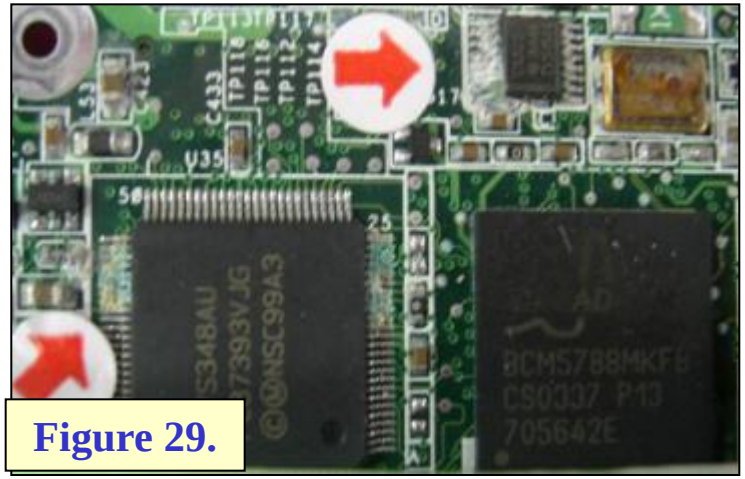


Figure 29.

4-3 PCB & Component Oxidation

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
Component and PCB Oxidation [Figure 22~29]	Component or PCB Oxidation	Rejected	-	-	-

5-1 PCB Burned

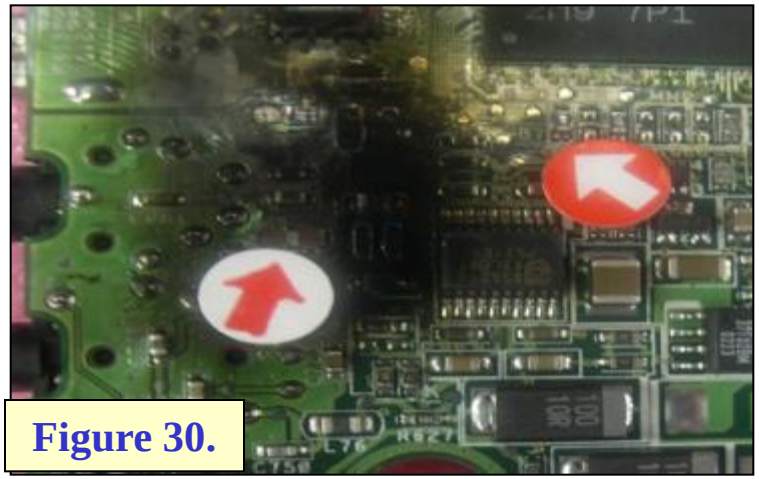


Figure 30.

Figure 31.

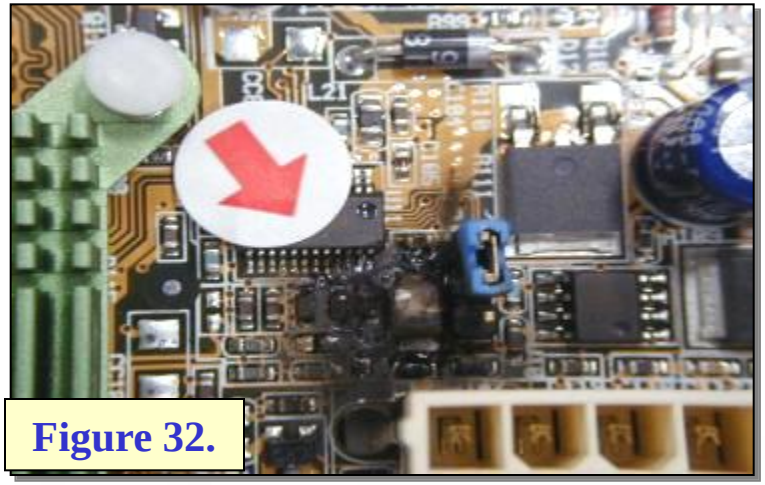


Figure 32.

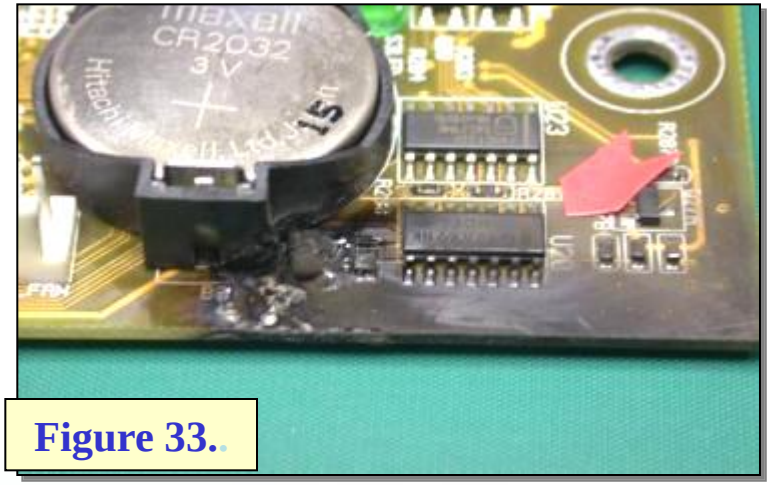


Figure 33.

5-2 PCB Burned

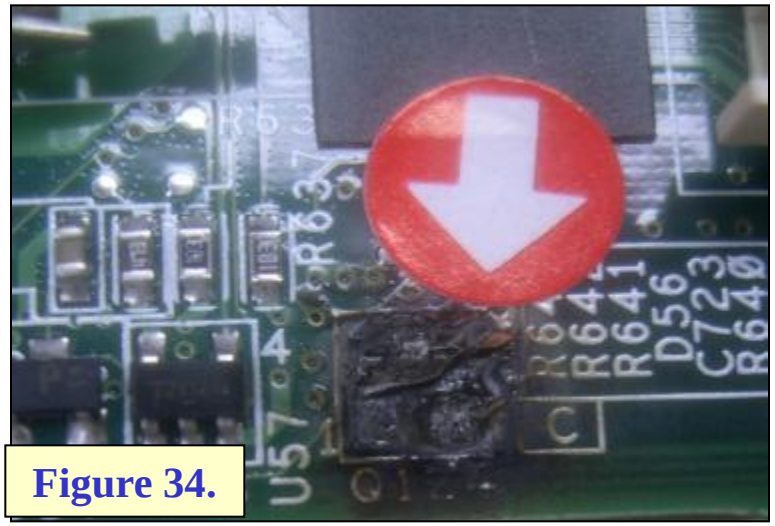


Figure 34.

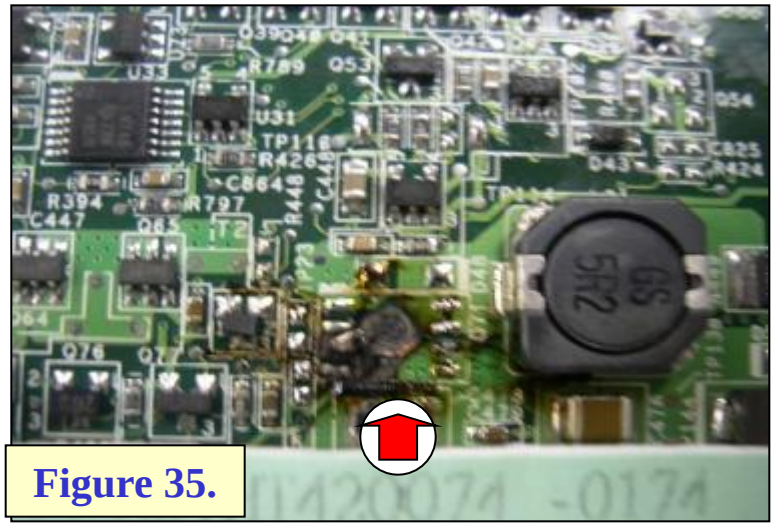


Figure 35.

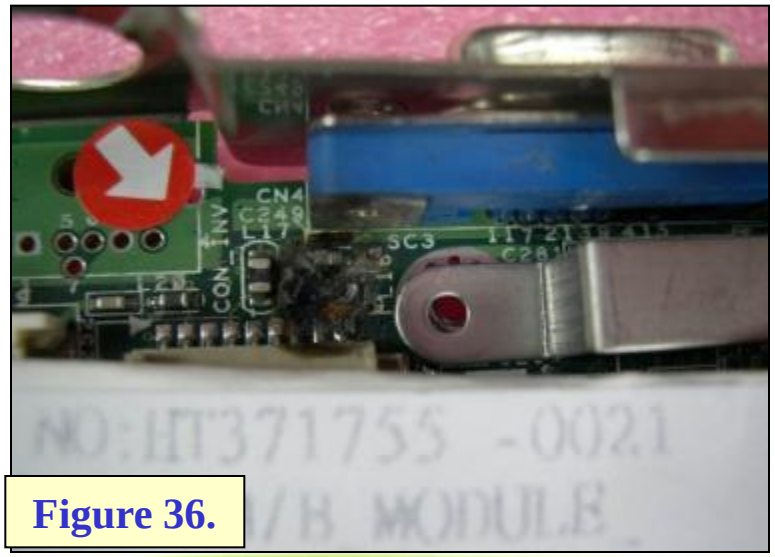


Figure 36.

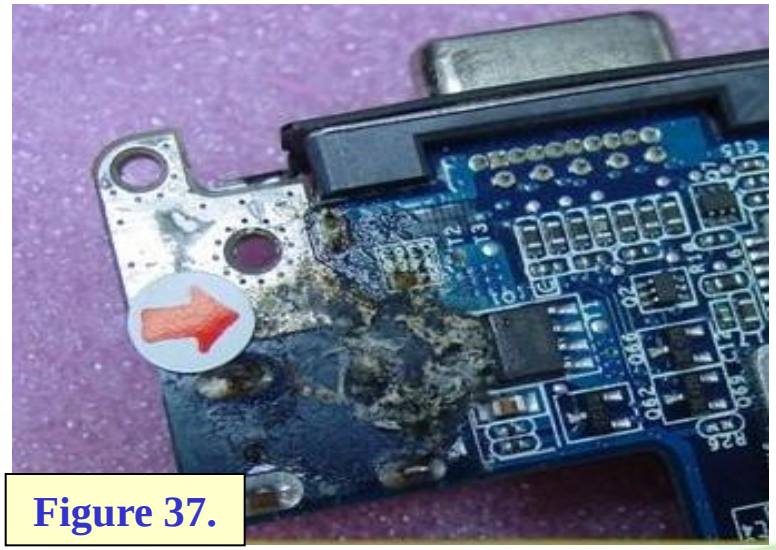


Figure 37.

5-3 PCB Burned

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
PCB Burned [Figure 30~37]	If M/B PCB is burned.	Rejected	-	-	-

6-1 Component Burned

Figure 38.

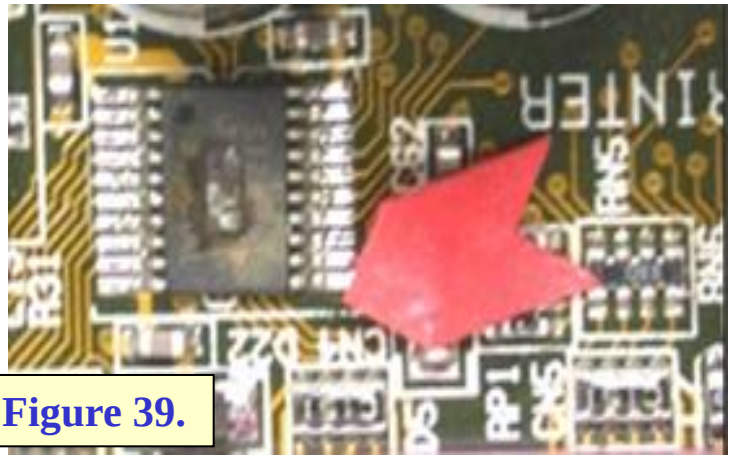


Figure 39.

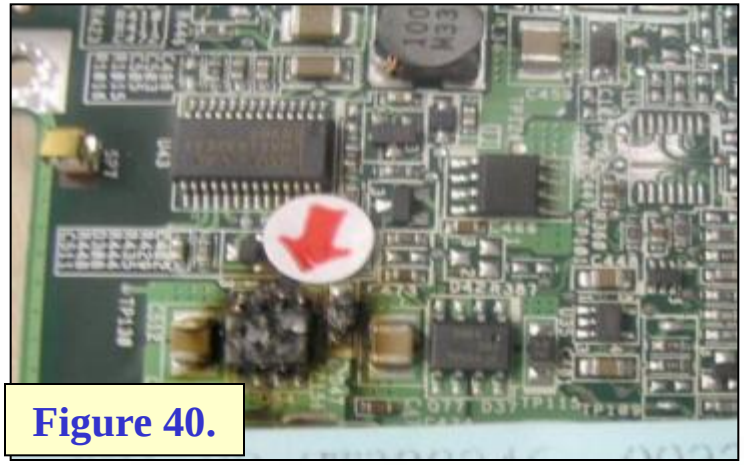


Figure 40.

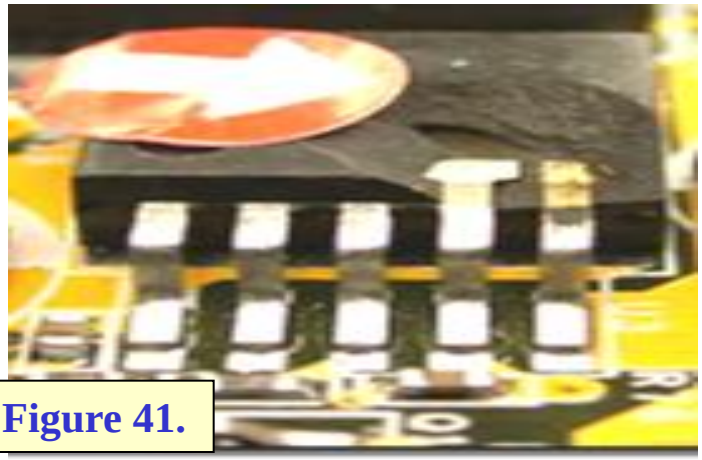


Figure 41.

6-2 Component Burned

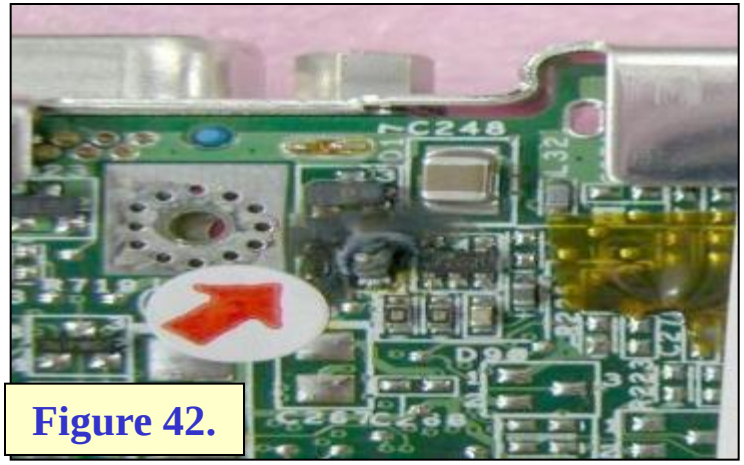


Figure 42.

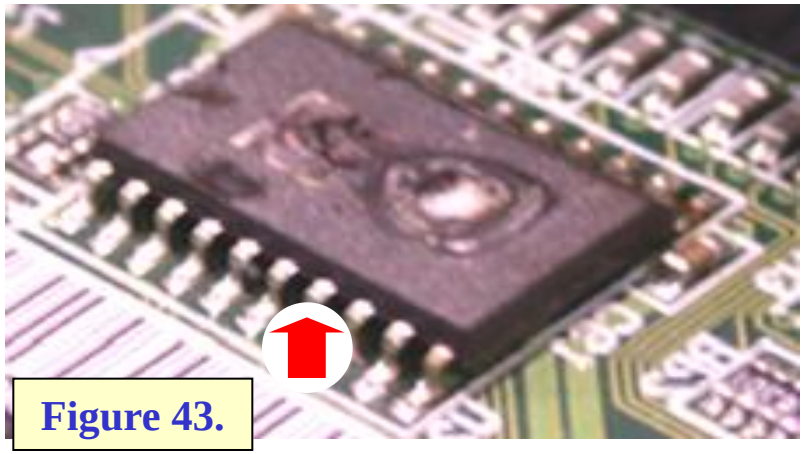


Figure 43.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
Component Burned [Figure 38~43]	For general	Accepted	-	Free	Charge
	If it's very obvious as user's faulty	Rejected	-	-	-

7-1 Missing Component

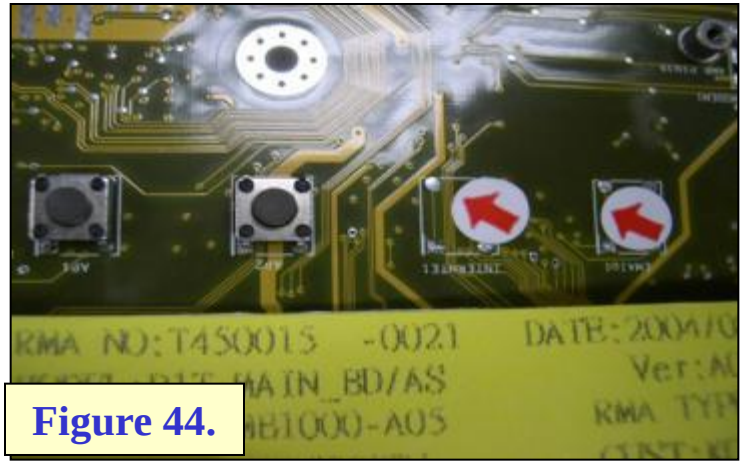


Figure 44.

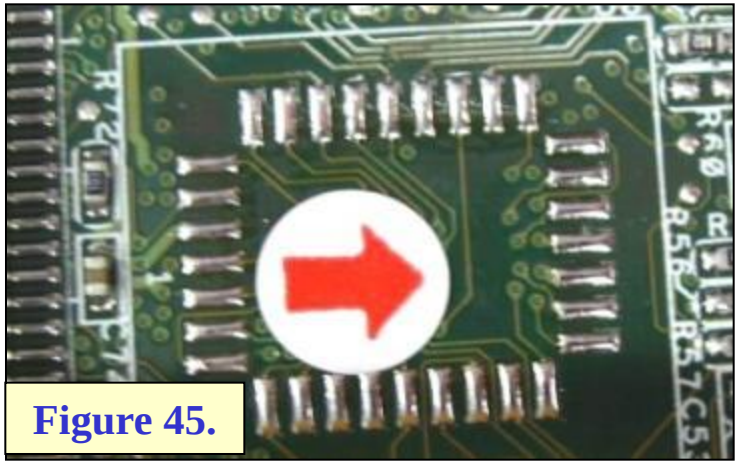


Figure 45.

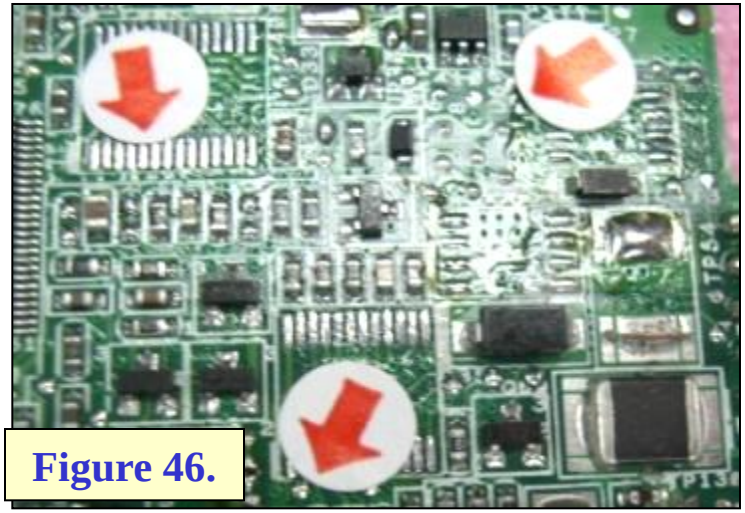


Figure 46.

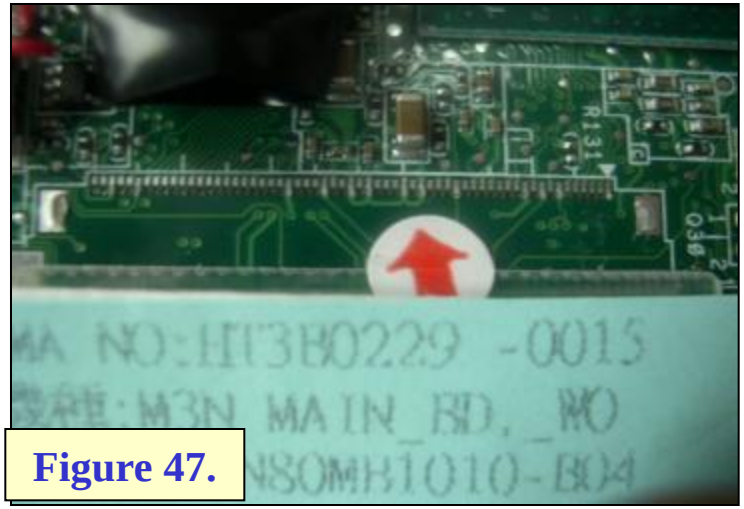


Figure 47.

7-2 Missing Component

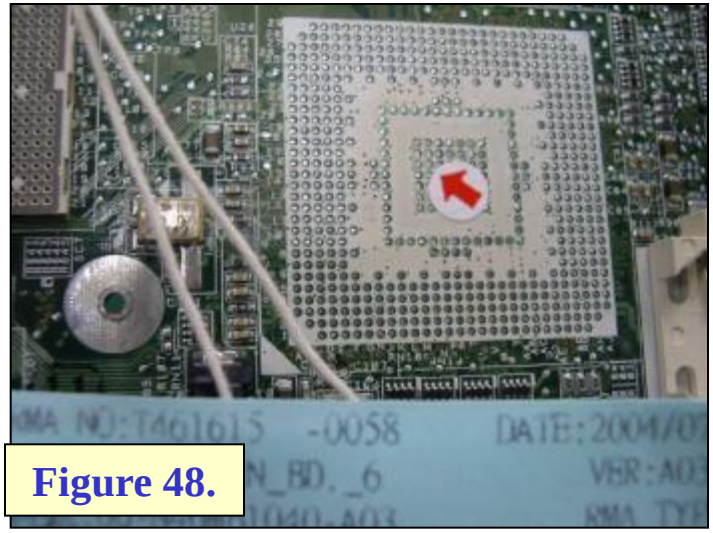


Figure 48.

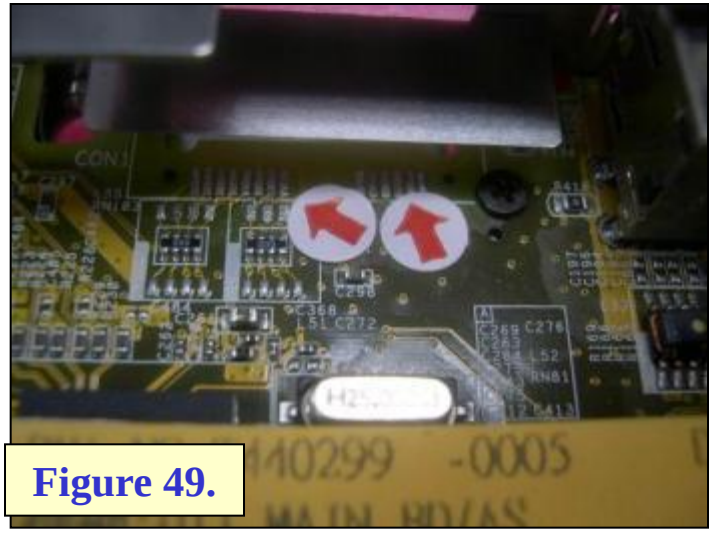


Figure 49.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
Missing Component [Figure 44~49]	if missing components by user	Rejected	-	-	-
	Missing components by user (under 2pcs not include BGA) (If customer request)	Accepted	-	Charge	Charge

8-1 S/N Damage

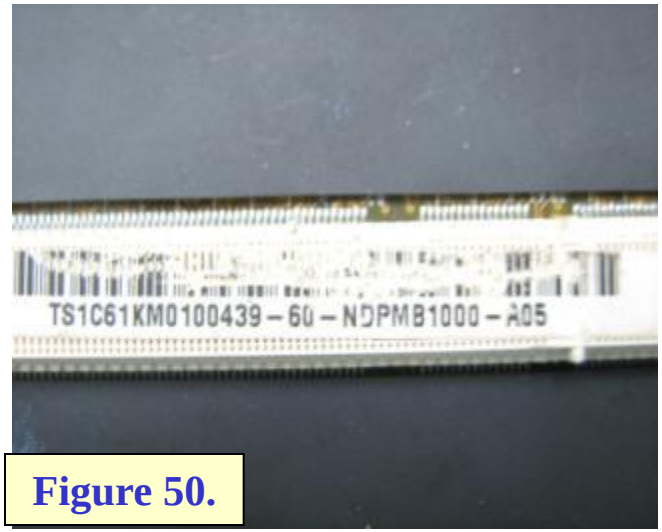


Figure 50.

Figure 51.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
S/N Damaged [Figure 50]	No S/N or the S/N can't be seen clearly whether it is in warranty.	Rejected	-	-	-
S/N Damaged [Figure 51]	S/N was damaged, but recognize it is in warranty. If can't be repaired, it would be Returned to Customer.	Accepted	-	free	-

9-1 Dirt

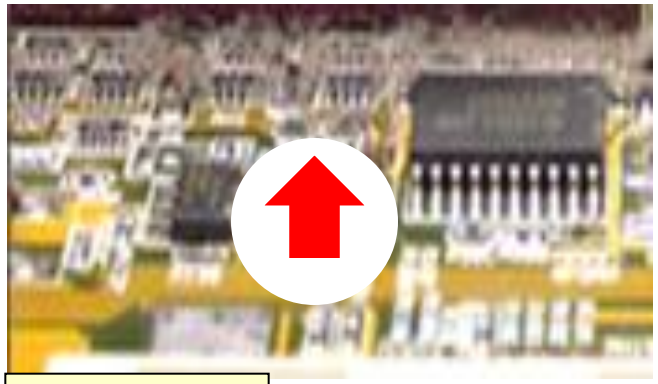
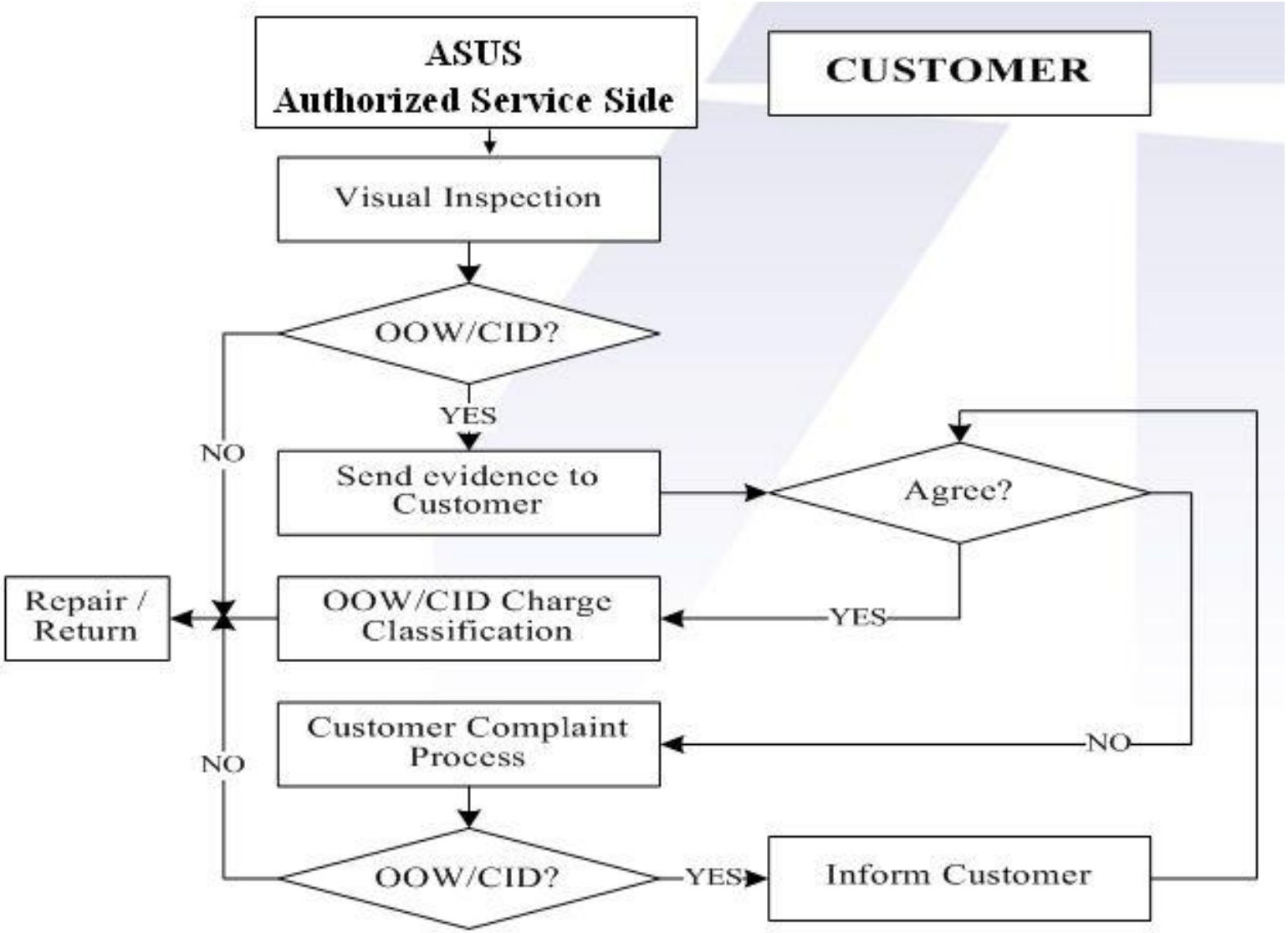


Figure 52.

Figure 53.

Damage	Comments	Repair	Exchange	In-Warranty	Out-Warranty
Dirt [Figure 52~53]	For general, if the board is dirt and doesn't influence function. We will clean it.	Accepted	-	-	-

10-1 CID&O.O.W service process flow chart



Chapter 3
ASUS Pretest Fixture Package

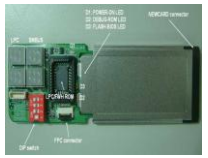
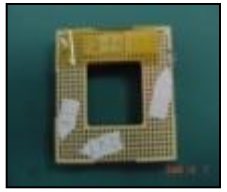
ASUS Pretest Fixture

PART NUMBER	Part Name	Amount	Photo
22-060001280	AUDIO Test Fixture	1	
60R-R00LA1000	LAN LOOP BACK	1	
80-C1G740-0A01	SWBIOS	1	
80-C1G036-0301	ENG_EZUSB BOARD v2.0	4	
22-060000050	USB Cable	4	

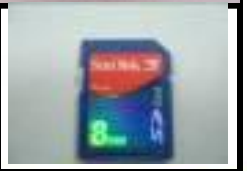
ASUS Pretest Fixture

PART NUMBER	Part Name	Amount	Photo
16-000500007	TOOLS PACKAGE	1	
14-011000040	IEEE 1394 CABLE	1	
14-000500500	MINI USB CABLE	1	
04-267001510	ADAPTER 10W AD620(US/JPN/TWN)	1	
20-521055550	CD-ROM TESTING CD	1	

ASUS Pretest Fixture

PART NUMBER	Part Name	Amount	Photo
60-NDDDB1000-B01P	PCI-Express Debug Card (type 34)	1	
60R-R0000070	SOCKET478 VOLTAGE TOOL	1	
60R-R0000250	SOCKET 754 VOLTAGE TOOL	1	
90R-NZADB1000Y	NB DRAM DEBUG CARD	1	
60-N61DB1000-A01P	L2D LPC_DEBUG BD	1	

ASUS Pretest Fixture

PART NUMBER	Part Name	Amount	Photo
60-2N61013136	EC JIG BOARD (FLASH BIOS Tools)	1	
14G122300280	28 pin FFC Cable	1	
14G122300240	24 pin FFCCable	1	
20-T00581702	EGE5000 GIGABIT ETHERNET (NEW CARD Test tool)	1	
20-TT2600048	SCANDISK SD Card	1	

ASUS Pretest Fixture

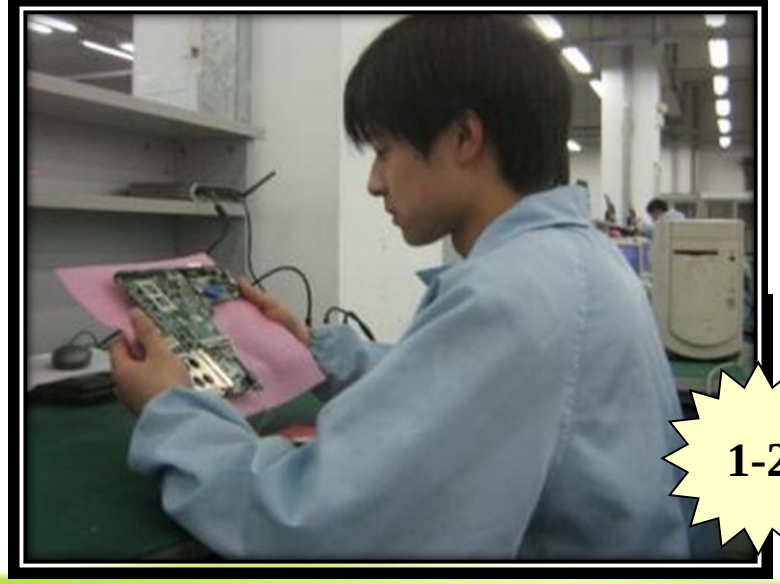
PART NUMBER	Part Name	Amount	Photo
20-521042381	Memory Stick Card	1	

Chapter 4
Pretest operate description

Pretest operate description-1

1-1

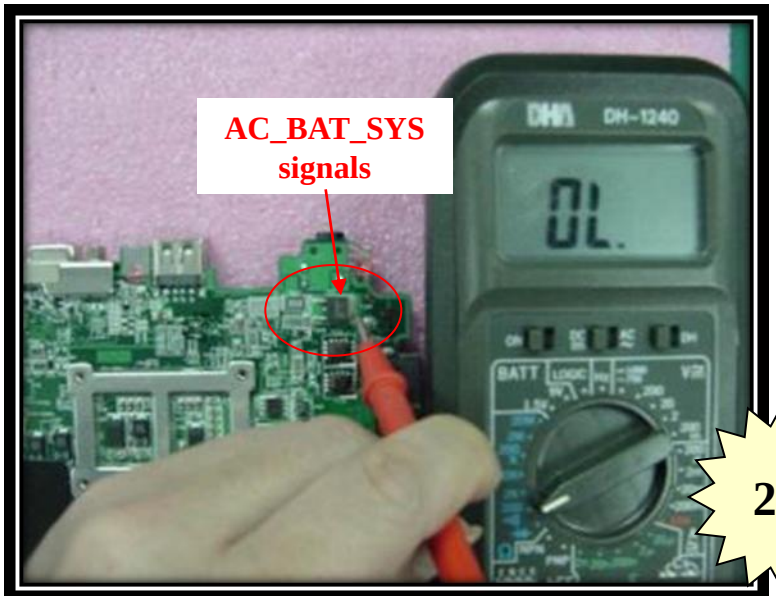
Visual inspection:
Inspect NB_MB have broken, oxidized…..
(Please refer Visual inspection Description)
Customer induce or not.
(Please refer Customer Induce Description)
If any M/B components failed to work after inspection, Please paste the arrow stacker and write on Diagnostic Card



1-2

Check ARN (rework) Notice to know if the model in your hand needs to do any rework

Pretest operate description-2



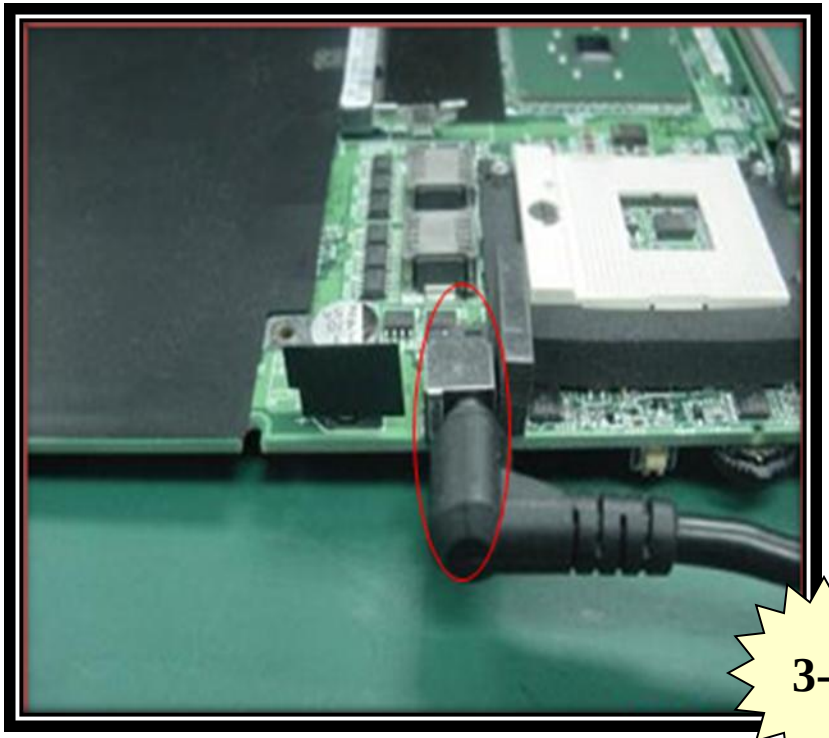
2-1

Before testing,
Please check M/B this signal of AC_BAT_SYS (19V) must be NO ground.

2-2

Use Multi-Meter or Oscilloscope to Measure RTC Voltage.
The range must be between 3.3V~3V.

Pretest operate description-3



If Visual inspection is OK. Please plug AC adapter power into DC-Jack power connector on Motherboard.

Pretest operate description-4

4-1

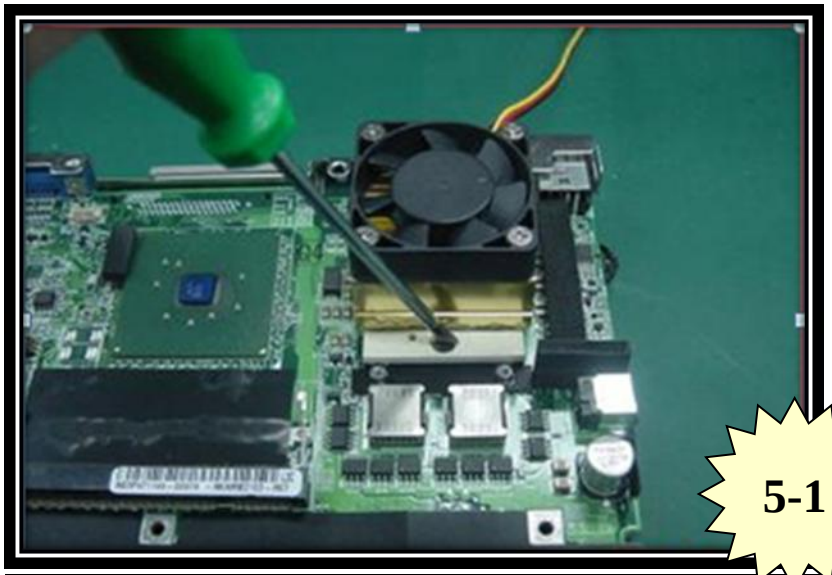
1.Plug CPU Voltage tool into CPU socket

2.And press Power switch button to turn on.

4-2

Use Multi-Meter or Oscilloscope to Measure CPU Voltage (VCORE) on CPU Voltage tool (+ 10% voltage to permit)

Pretest operate description-5



5-1

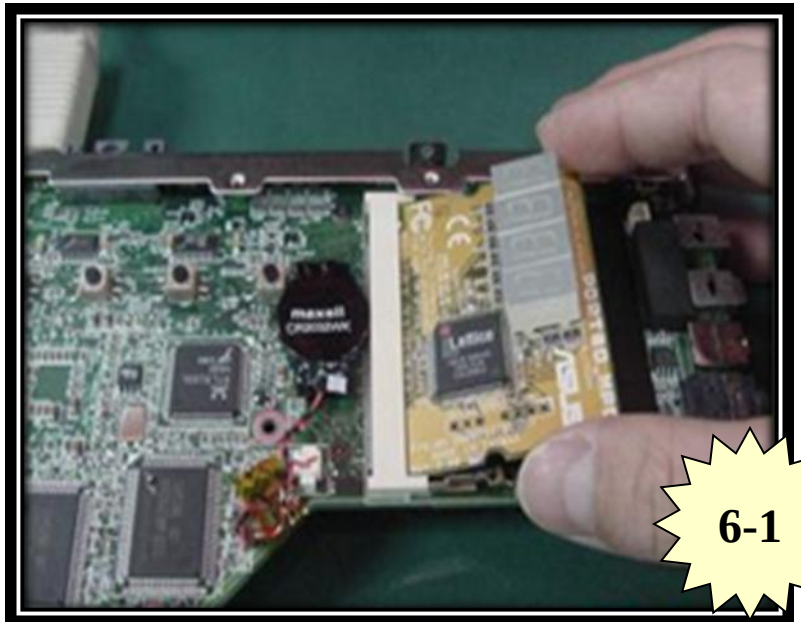
1.Turn off power and Remove CPU voltage tool.

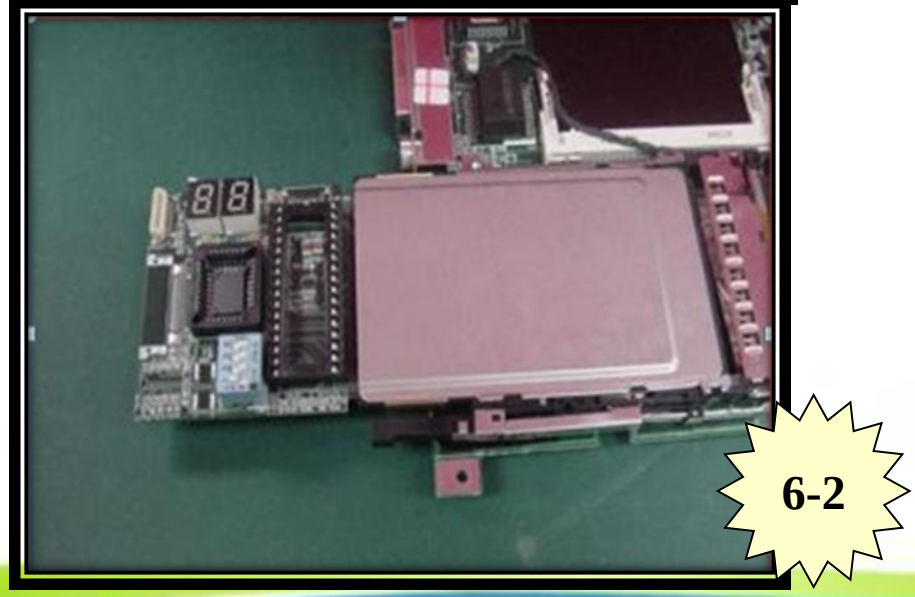
2.Plug CPU into CPU socket. (Dothan\ Yonah\Merom\Penryn….etc)

5-2

Plug Memory Module (DDR or DDR2 or DDR3base on model request) into Memory DIMM Slot.

Pretest operate description-6

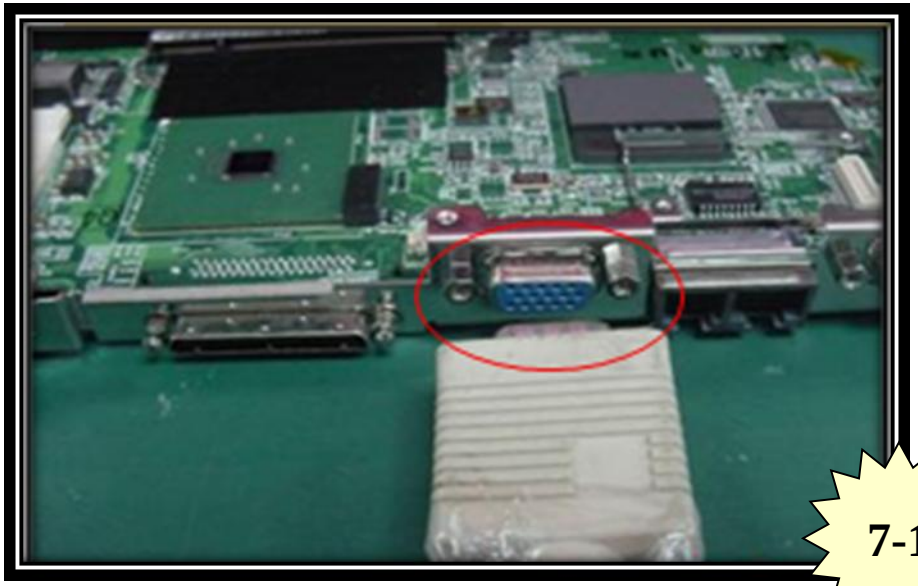




Plug PORT80_MINIPCI Debug Card into M/B MINIPCI Slot.

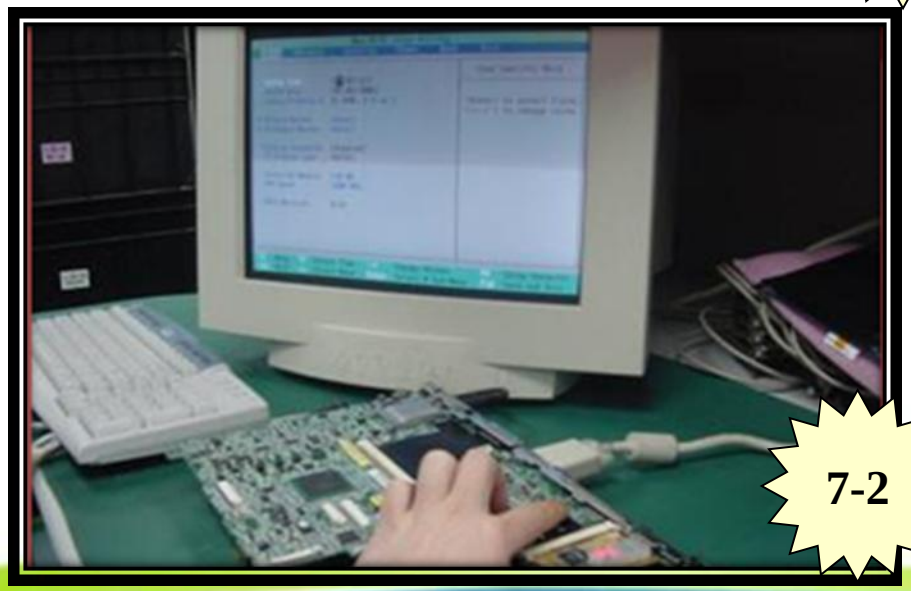
Note:
Some model NB not supported MINIPCI Debug Card,
Please use PCMCIA Debug Card to debug.

Pretest operate description-7



7-1

Plug VGA Monitor Cable into M/B VGA port connector.

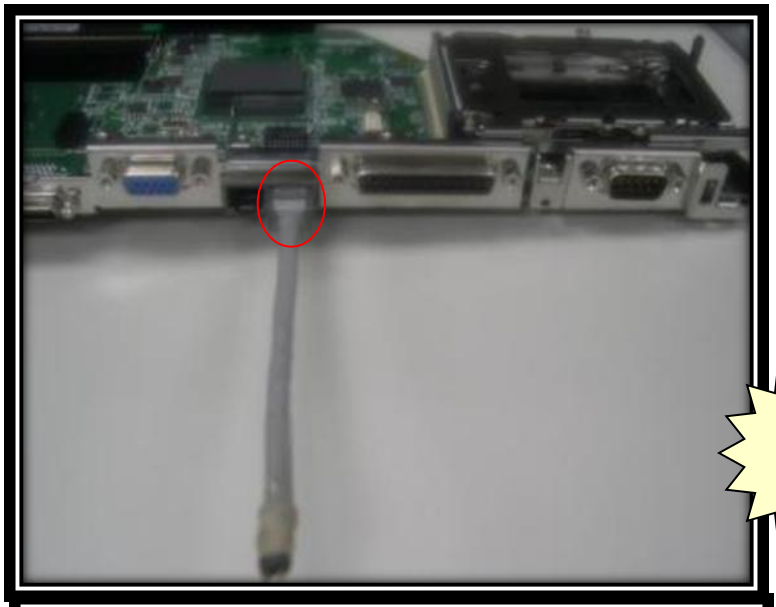


7-2

Press Power switch button to booting up,
Check System is boot or NO ?

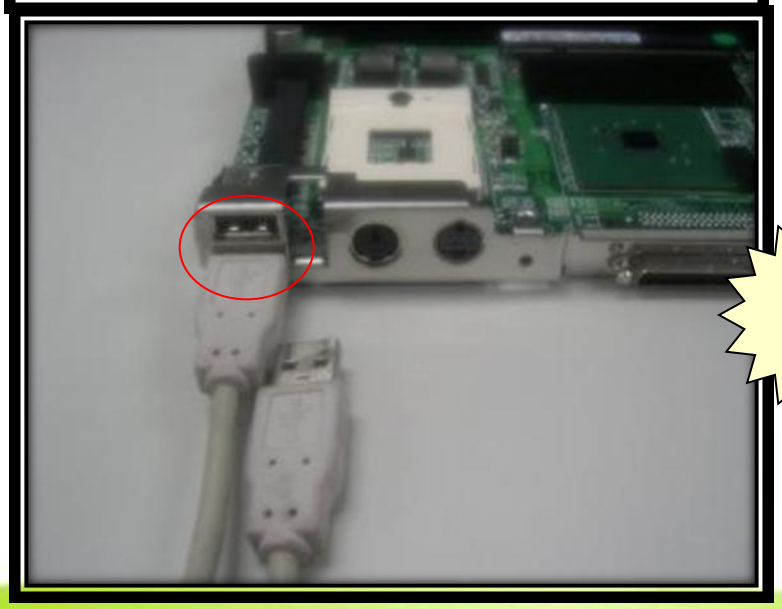
If you find no display on the monitor, please pass it to engineer for repair.

Pretest operate description-8



8-1

Plug LAN loop back TEST Fixture into LAN connector(RJ-45).

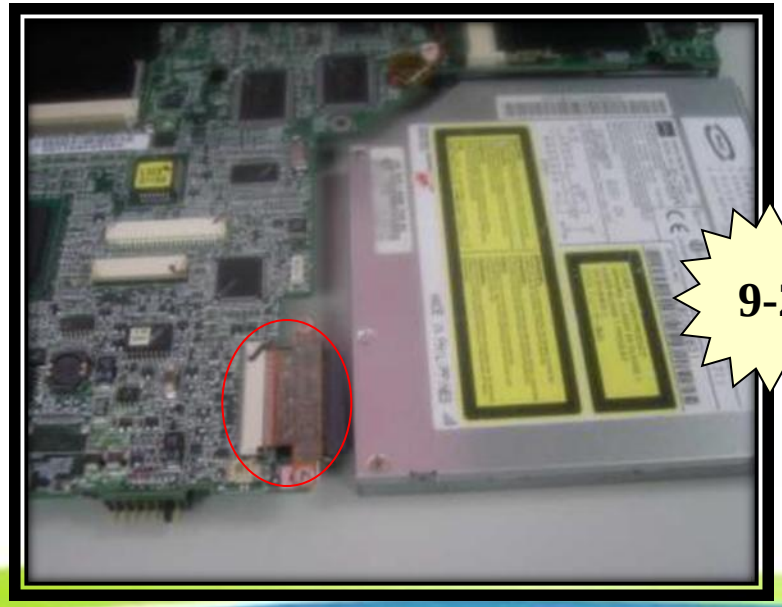


8-2

Plug USB TEST Fixture into USB connector(RJ-45).

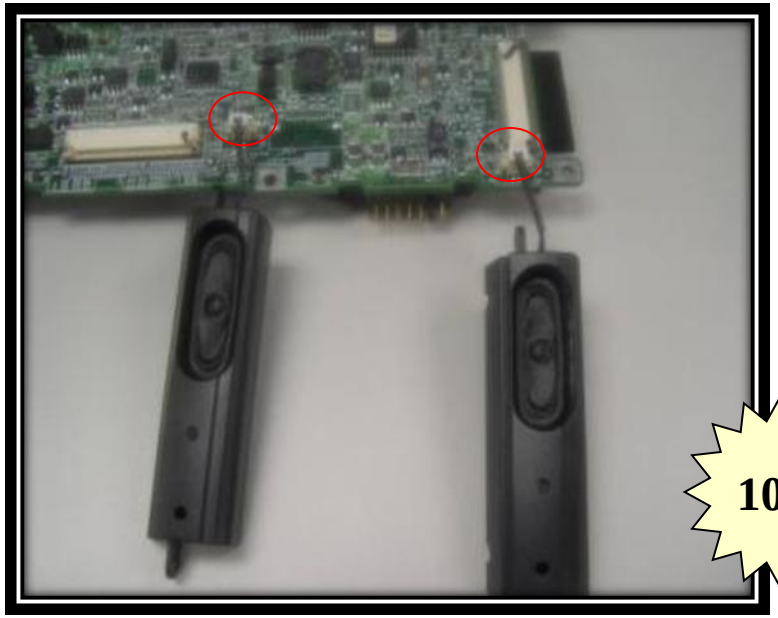
Pretest operate description-9

Plug TEST Hard disk into HDD connector.



Plug DVD-ROM drive into DVD-ROM connector.

Pretest operate description-10

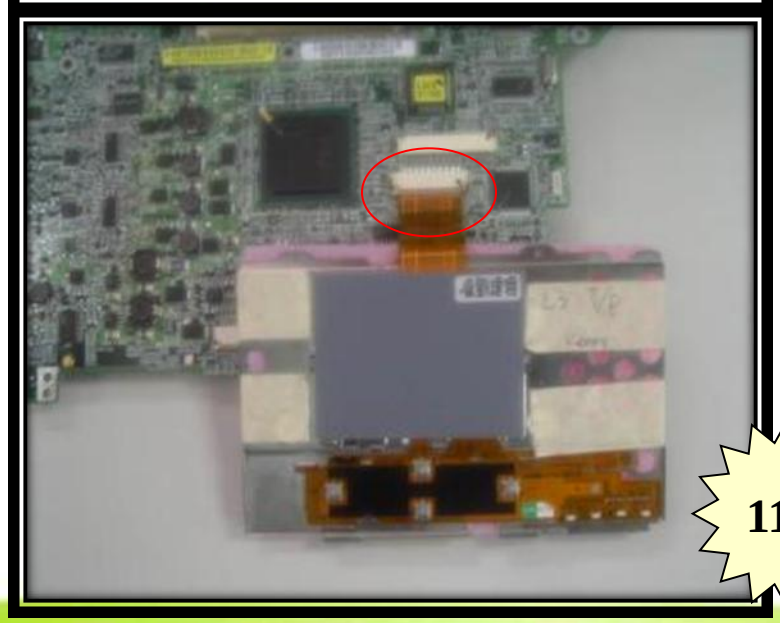


Plug Internal Speaker into Speaker connector.

Pretest operate description-11

11-1

Plug Internal Keyboard into K/B connector.



11-2

Plug Touch Pad Module device into T/P connector.

Pretest operate description-12

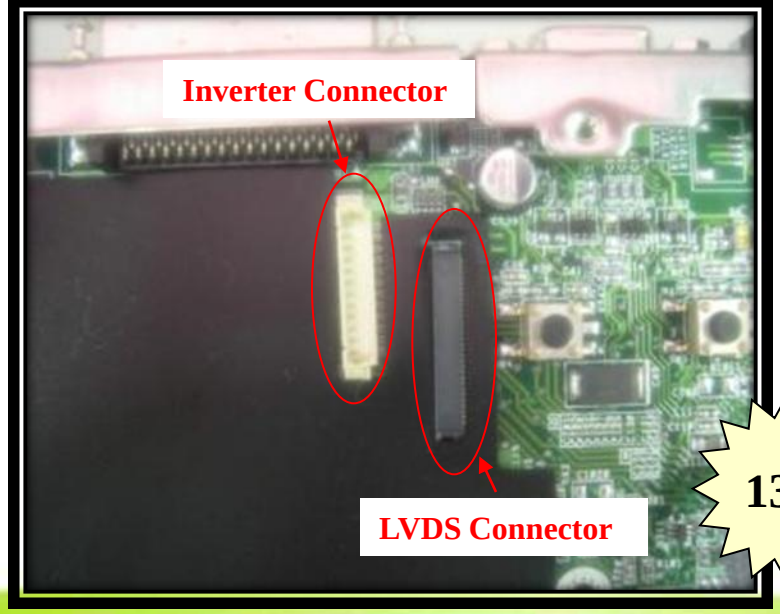
12-1

12-2

Plug SD card into card reader.

Pretest operate description-13

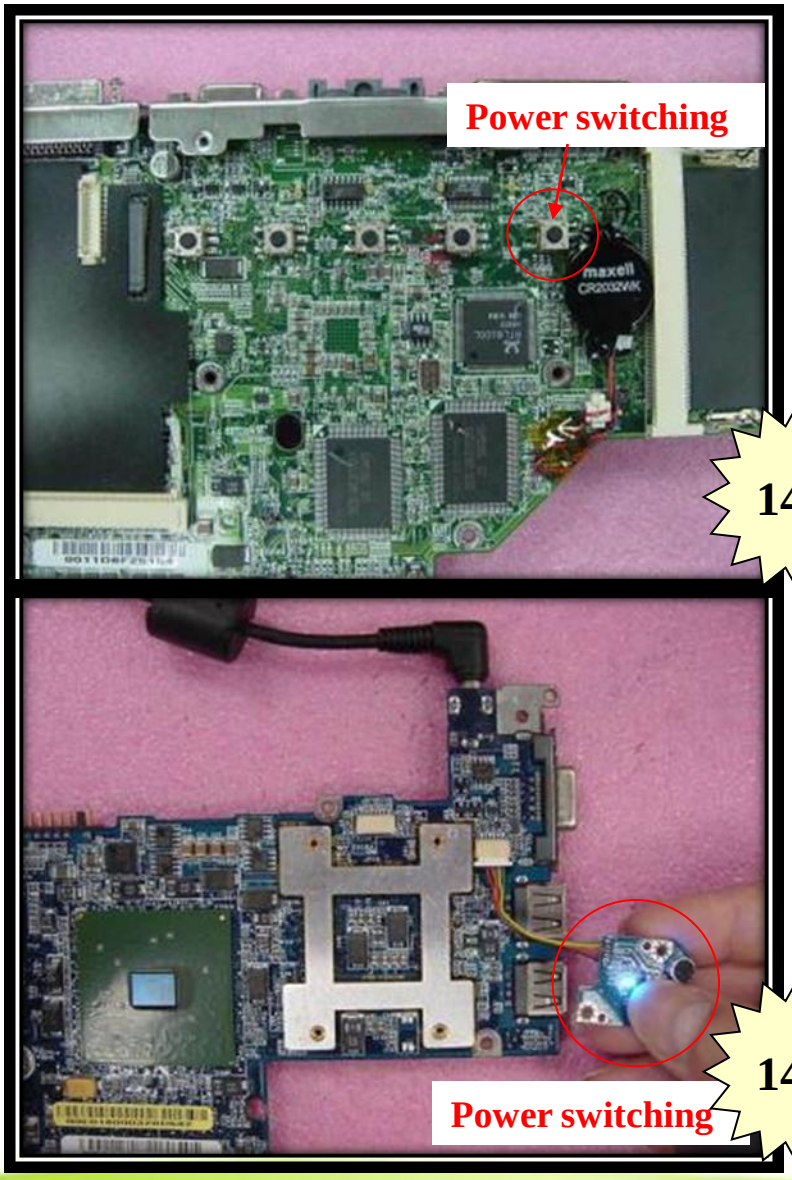
13-1



13-2

Plug LCD Module into LVDS & Inverter connector.

Pretest operate description-14

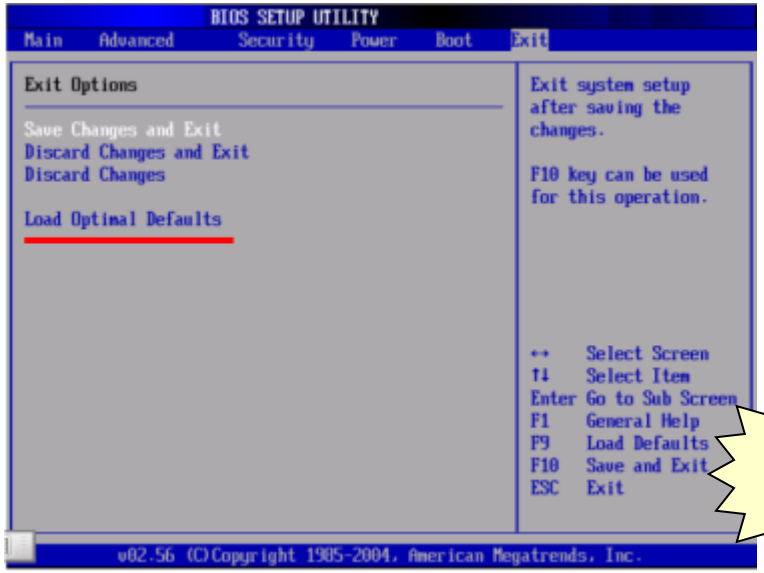


Push the power switching button once, And will switching on the system and start to test Motherboard function.

NOTE:
All power switching button design is different.

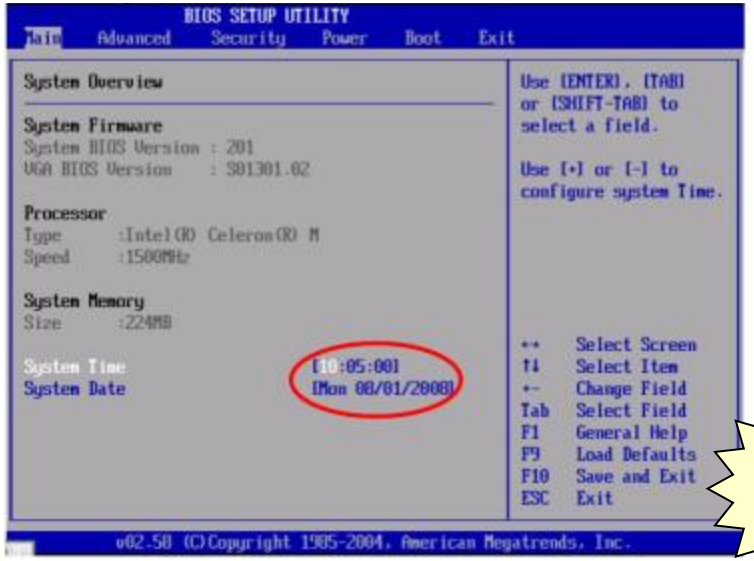
Ex: picture 16-1 .(L3C) The power switch button is on the motherboard,
And picture 16-2 ,(M5N) the power switch button is another board.

Pretest operate description-15


BIOS SETUP UTILITY
Main Advanced Security Power Boot Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Discard Changes
Load Optimal Defaults
Exit system setup after saving the changes.
F10 key can be used for this operation.
↔ Select Screen
↑↓ Select Item
Enter Go to Sub Screen
F1 General Help
F9 Load Defaults
F10 Save and Exit
ESC Exit
v02.56 (C)Copyright 1985-2004, American Megatrends, Inc.

15-1

When system is booting,
Entering BIOS setup Utility, and
Load setup Defaults



15-2

Entering main menu:
Make sure system clock is correct, if not please adjust to local time.

Pretest operate description-16

After Load setup Defaults & setup system clock,

Save configuration changes and exit.

BIOS SETUP UTILITY
Main Advanced Security Power Boot Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Discard Changes
Exit system setup after saving the changes.
F10 key can be used for this operation.
↔ Select Screen
↑↓ Select Item
Enter Go to Sub Screen
F1 General Help
F9 Load Defaults
F10 Save and Exit
ESC Exit
v02.56 (C)Copyright 1985-2004, American Megatrends, Inc.

Free DOS Test Program Introduction

- Download

  Access SIP-> Public Folder->GTC->ASUS NB，open ASUS NB Index，click Program PackageY08W01.rar to download the program.

ACTRE	ARN Info	Main Program	EOL Model	USB Boot	L2.5 Order	Key-Partys Program
Aging Program	Clean CMOS	DOS Stress	MB Repair KB	Weekly Package	Equipment List	

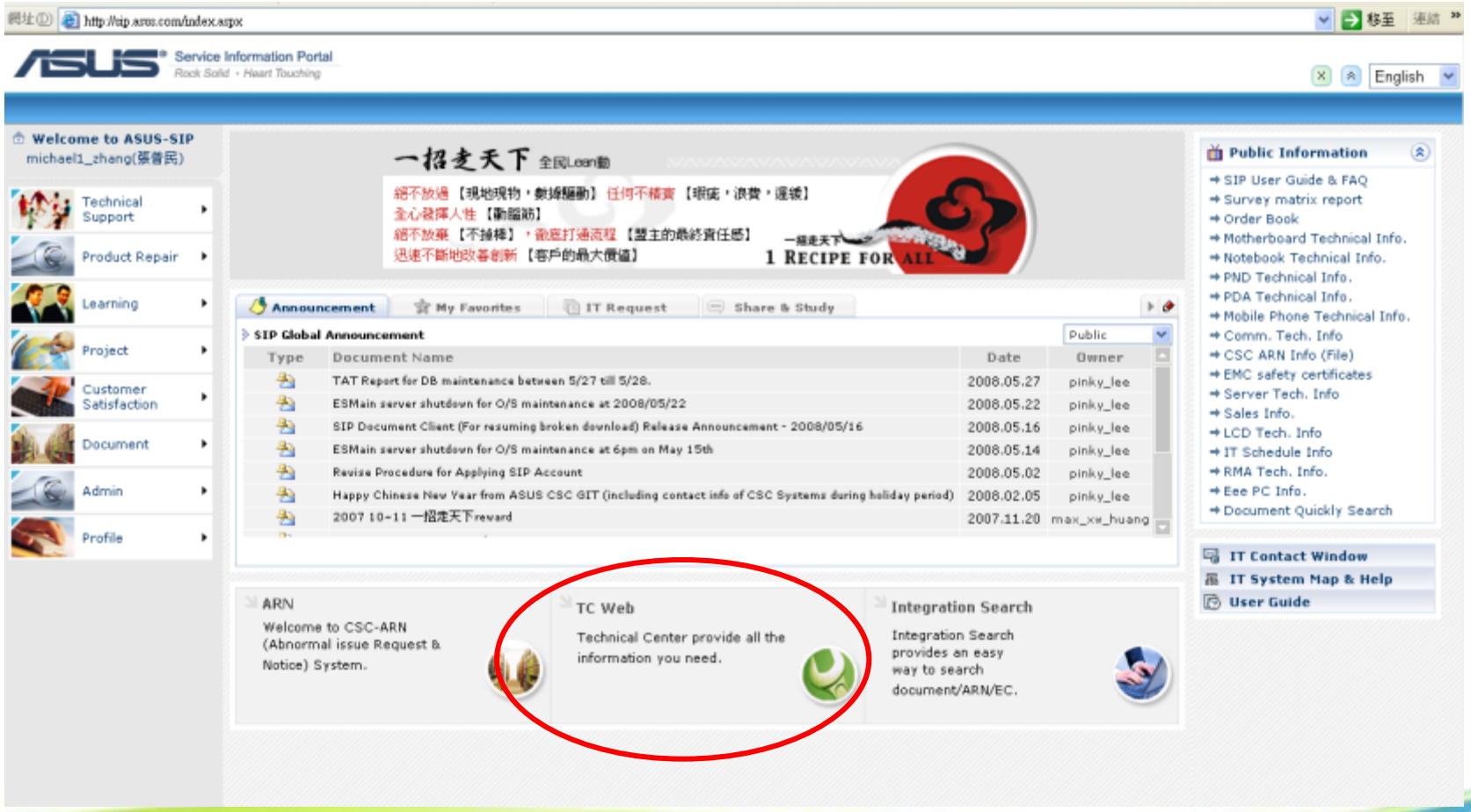
Mode	File Name	Model	Update date
FreeDOS	Program PackageY08W01.rar	182	2008.1.4
Windows	Windows Main Program		2008.9.22

Serial	Model Number	PartNumber (TSICT)	BIOS	Test Program		TCD	S.O.P		Repair Guide (RG)	Troubleshooting Guide(TSG)		Update Date	Remark
				DOS	Windows					EN	CN		
	A3Ac	NFN	212	A3Ac.rar		TCD		Assemble	Repair Guide				

Free DOS Test Program Introduction

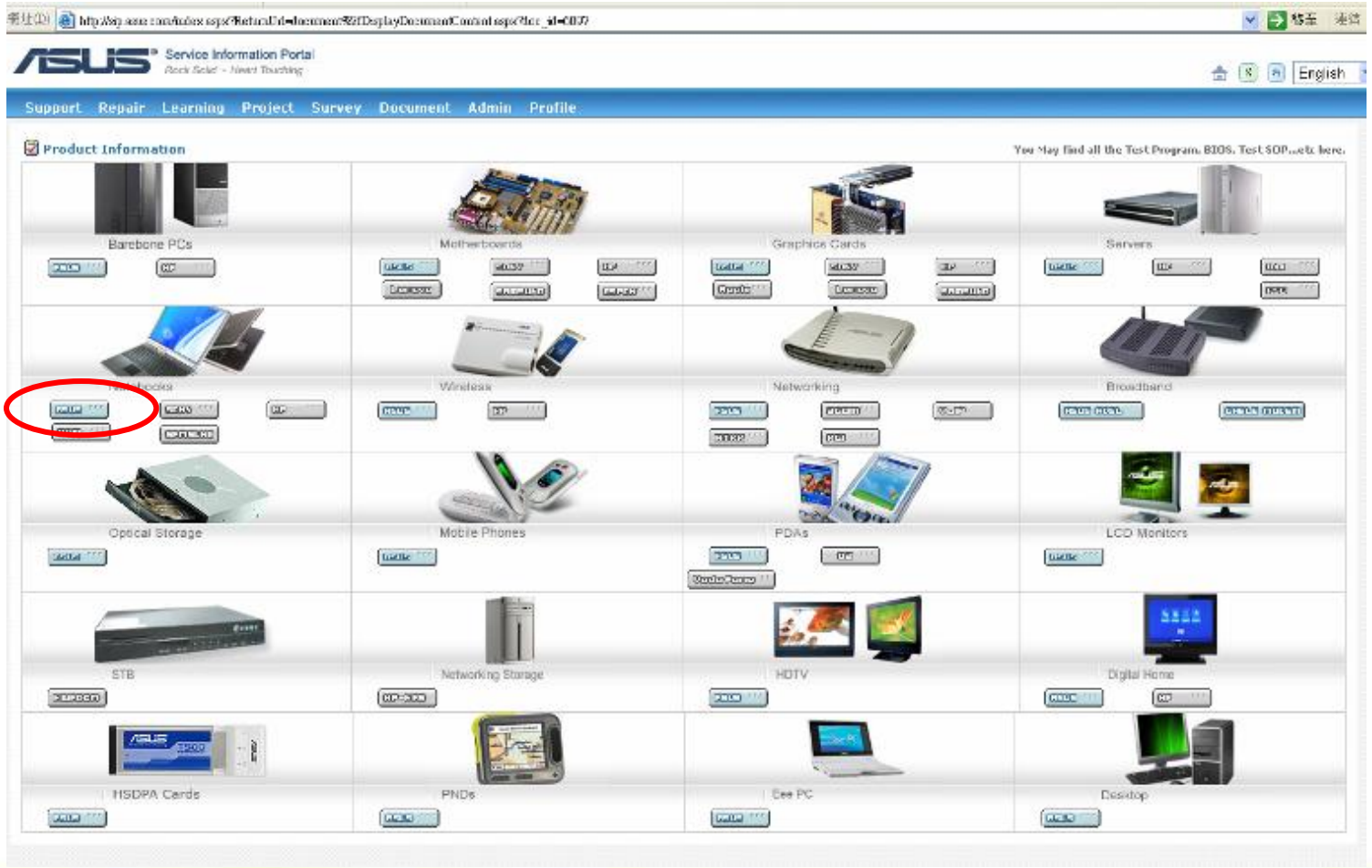
- Add model

Access SIP → web.



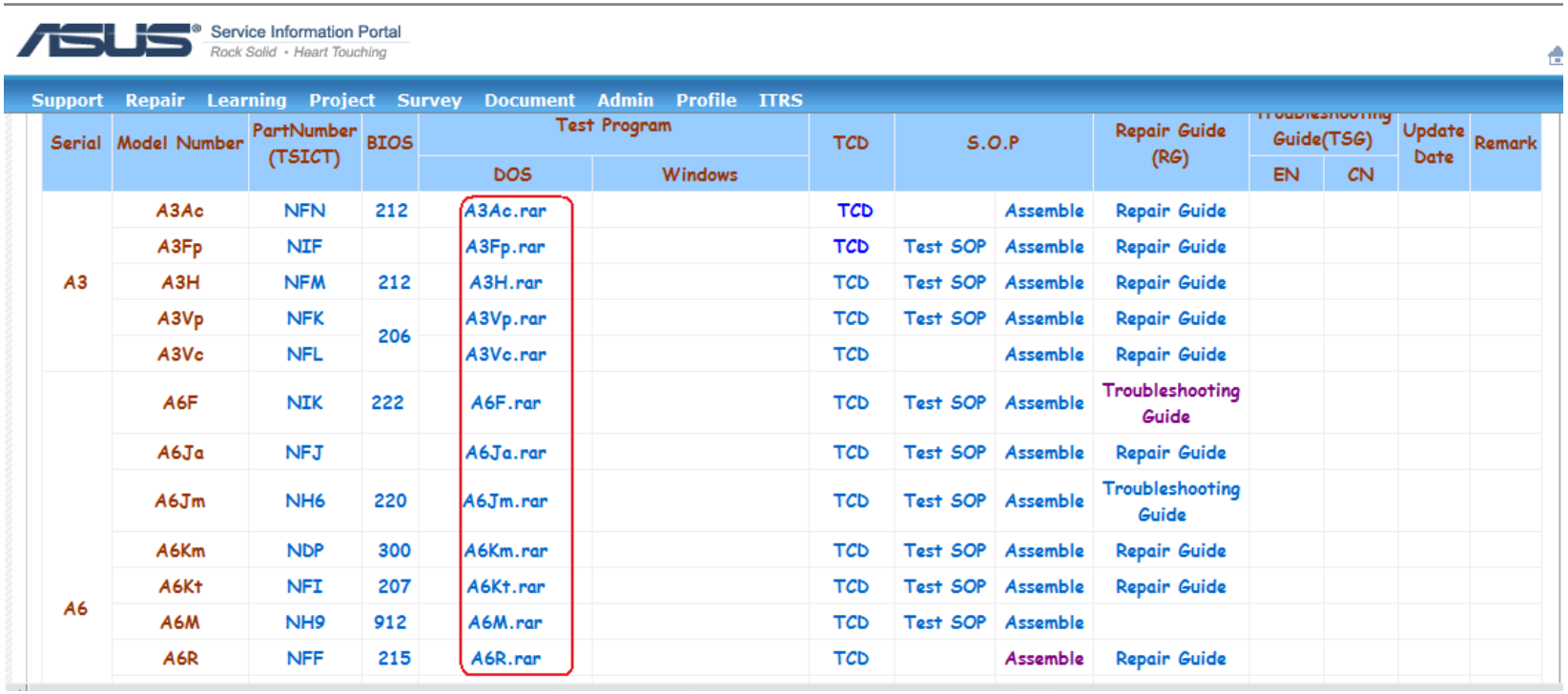
Free DOS Test Program Introduction

Click ASUS NB



Free DOS Test Program Introduction

Download the Program PackageY08W01.rar about which model you need.



Service Information Portal
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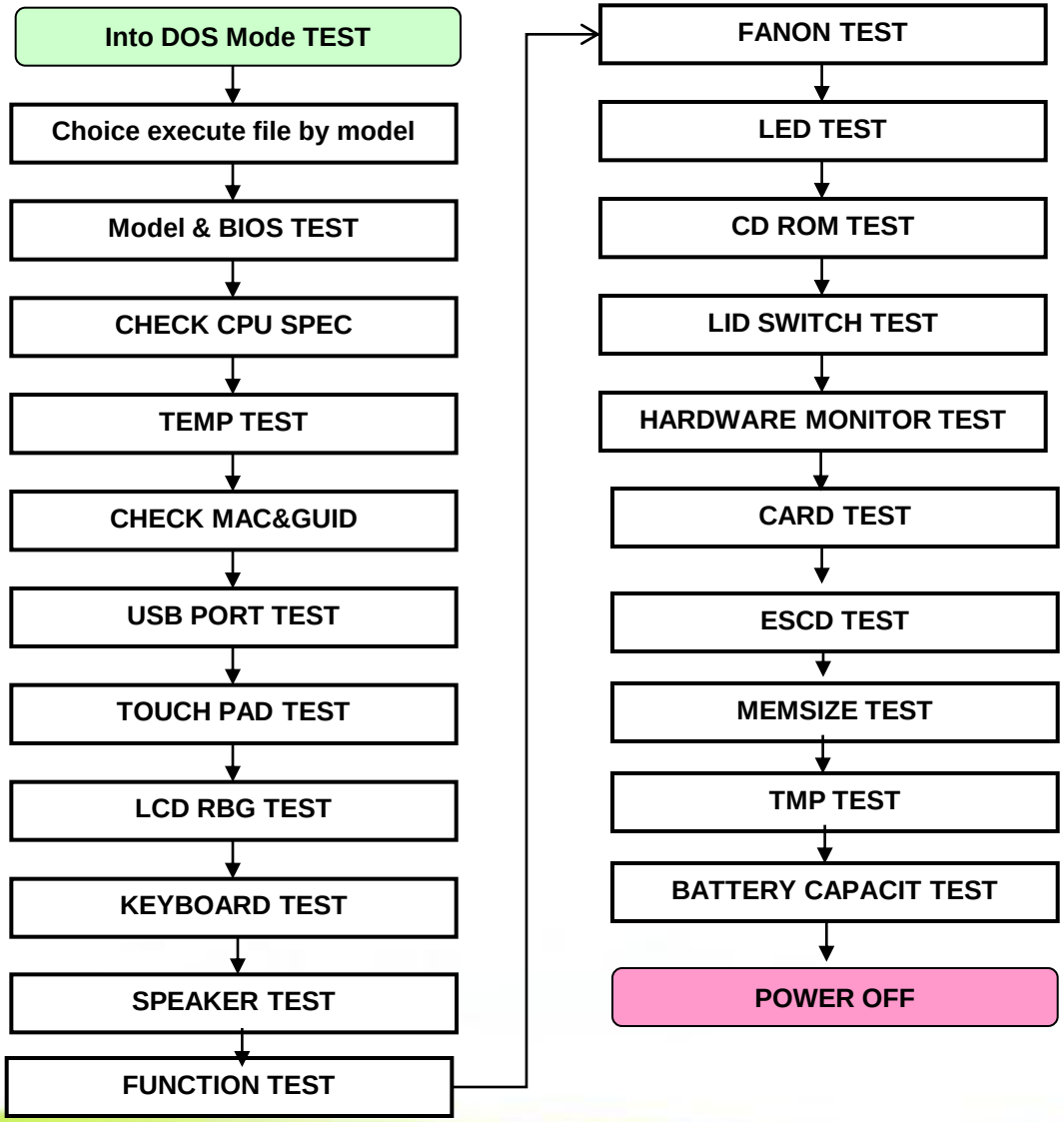
Support Repair Learning Project Survey Document Admin Profile ITRS

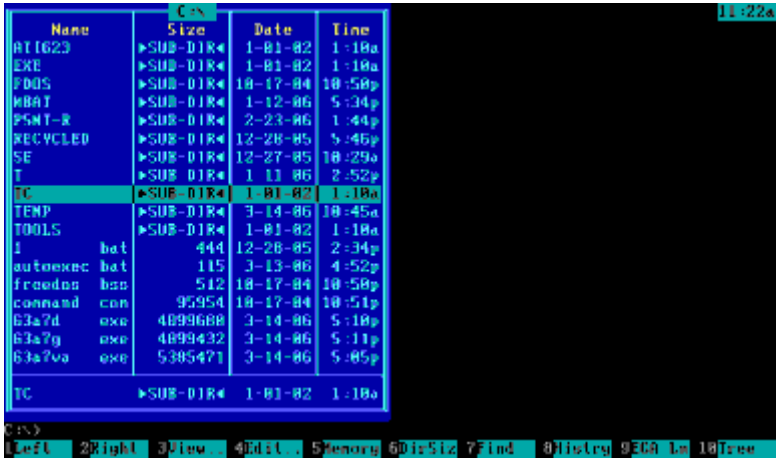
Serial	Model Number	PartNumber (TSICT)	BIOS	Test Program		TCD	S.O.P		Repair Guide (RG)	Troubleshooting Guide(TSG)		Update Date	Remark
				DOS	Windows					EN	CN		
A3	A3Ac	NFN	212	A3Ac.rar		TCD		Assemble	Repair Guide				
	A3Fp	NIF		A3Fp.rar		TCD	Test SOP	Assemble	Repair Guide				
	A3H	NFM	212	A3H.rar		TCD	Test SOP	Assemble	Repair Guide				
	A3Vp	NFK	206	A3Vp.rar		TCD	Test SOP	Assemble	Repair Guide				
	A3Vc	NFL		A3Vc.rar		TCD		Assemble	Repair Guide				
A6	A6F	NIK	222	A6F.rar		TCD	Test SOP	Assemble	Troubleshooting Guide				
	A6Ja	NFJ		A6Ja.rar		TCD	Test SOP	Assemble	Repair Guide				
	A6Jm	NH6	220	A6Jm.rar		TCD	Test SOP	Assemble	Troubleshooting Guide				
	A6Km	NDP	300	A6Km.rar		TCD	Test SOP	Assemble	Repair Guide				
	A6Kt	NFI	207	A6Kt.rar		TCD	Test SOP	Assemble	Repair Guide				
	A6M	NH9	912	A6M.rar		TCD	Test SOP	Assemble					
	A6R	NFF	215	A6R.rar		TCD		Assemble	Repair Guide				

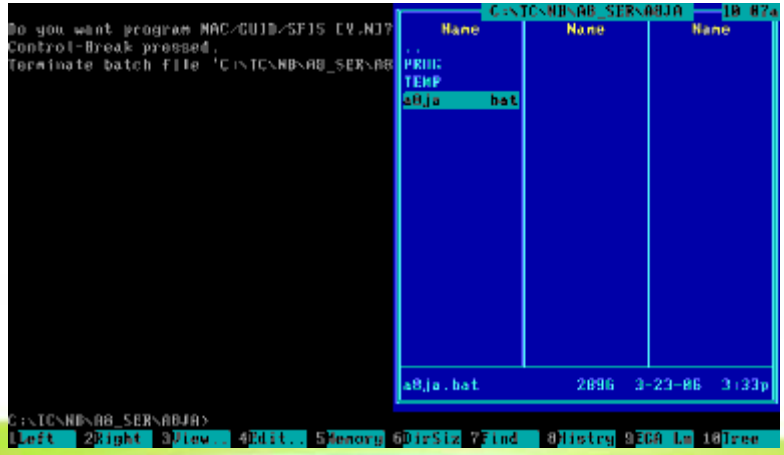
Free DOS Test Program Flow



Choice Model & Running Test Program

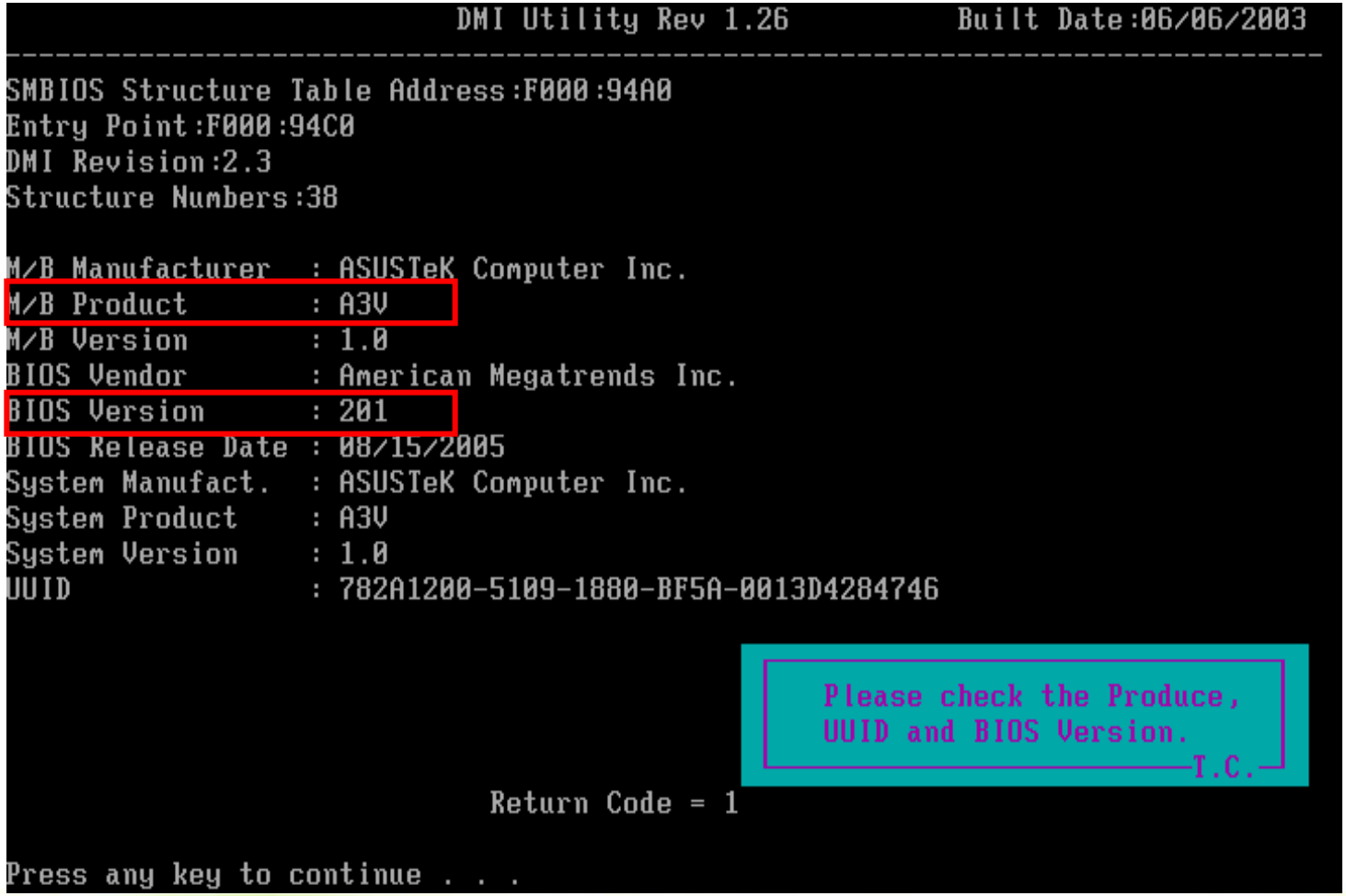
Choice Model name and running test program.
When system standby (like this picture)
Choice TC → NB → XX_SER (Ex.A8_SER) → YYYY (Ex.A8Ja)
Execute the BAT file.


C:\
Name Size Date Time
AI6623 ▸SUB-DIR◂ 1-01-02 1:10a
EXE ▸SUB-DIR◂ 1-01-02 1:10a
FDOS ▸SUB-DIR◂ 10-17-04 10:50p
MBAT ▸SUB-DIR◂ 1-12-06 5:34p
PSNT-R ▸SUB-DIR◂ 2-23-06 1:44p
RECYCLED ▸SUB-DIR◂ 12-28-05 5:46p
SE ▸SUB-DIR◂ 12-27-05 10:29a
T ▸SUB DIR◂ 1 11 06 2:52p
TC ▸SUB-DIR◂ 1-01-02 1:10a
TEMP ▸SUB-DIR◂ 3-14-06 10:45a
TOOLS ▸SUB-DIR◂ 1-01-02 1:10a
1 bat 444 12-28-05 2:34p
autoexec bat 115 3-13-06 4:52p
freedos bss 512 10-17-04 10:50p
command com 95954 10-17-04 10:51p
63a7d exe 4099688 3-14-06 5:10p
63a7g exe 4099432 3-14-06 5:11p
63a7va exe 5385471 3-14-06 5:05p
TC ▸SUB-DIR◂ 1-01-02 1:10a
11:22a
C:\>
1Left 2Right 3View 4Edit 5Memory 6DirSiz 7Find 8Histry 9EGA Ln 10Tree



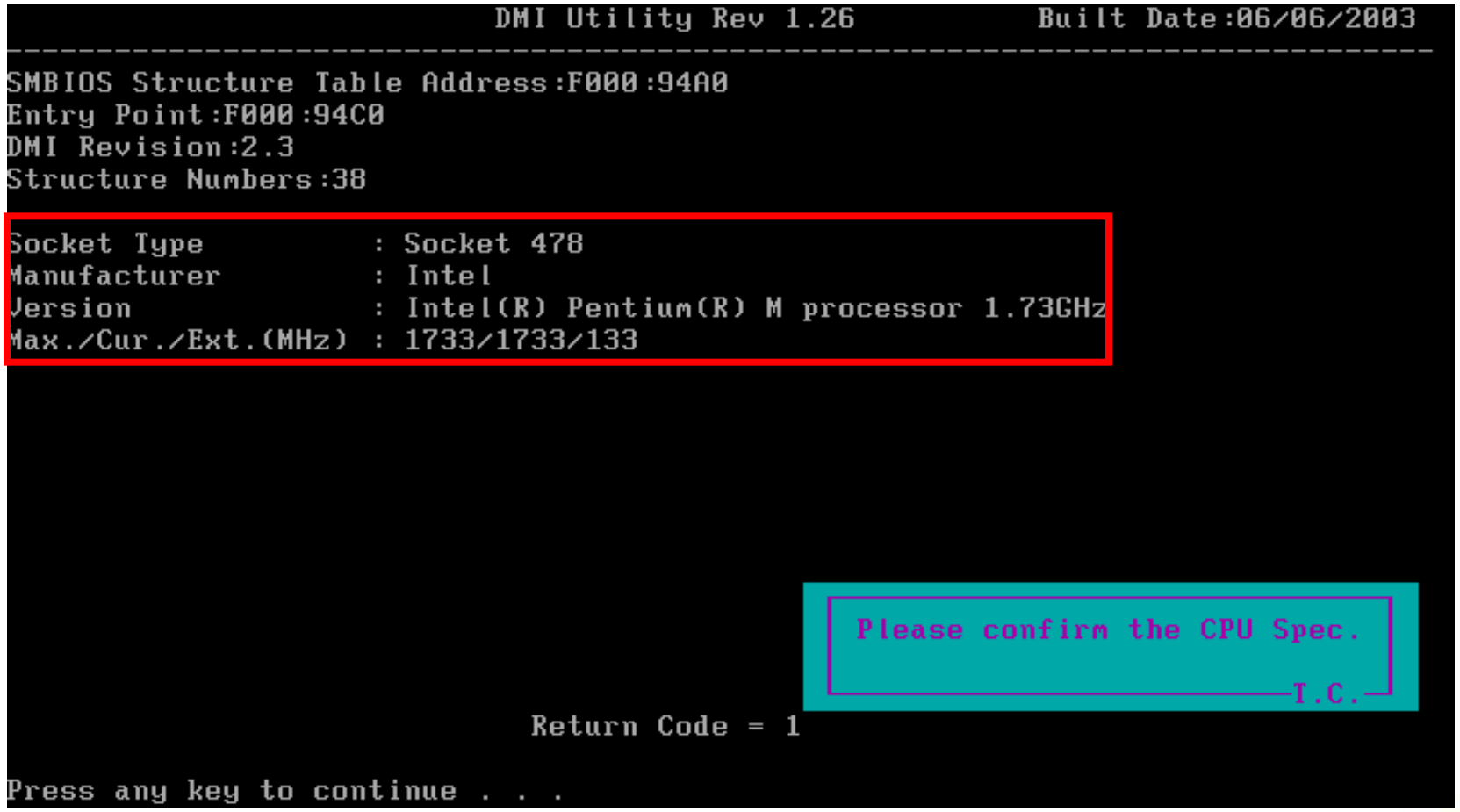
Model & BIOS Test

Model and BIOS Test
Check Product type
Check BIOS Version


DMI Utility Rev 1.26 Built Date:06/06/2003
SMBIOS Structure Table Address:F000:94A0
Entry Point:F000:94C0
DMI Revision:2.3
Structure Numbers:38
M/B Manufacturer : ASUSTeK Computer Inc.
M/B Product : A3V
M/B Version : 1.0
BIOS Vendor : American Megatrends Inc.
BIOS Version : 201
BIOS Release Date : 08/15/2005
System Manufact. : ASUSTeK Computer Inc.
System Product : A3V
System Version : 1.0
UUID : 782A1200-5109-1880-BF5A-0013D4284746
Please check the Produce, UUID and BIOS Version.
I.C.
Return Code = 1
Press any key to continue . . .

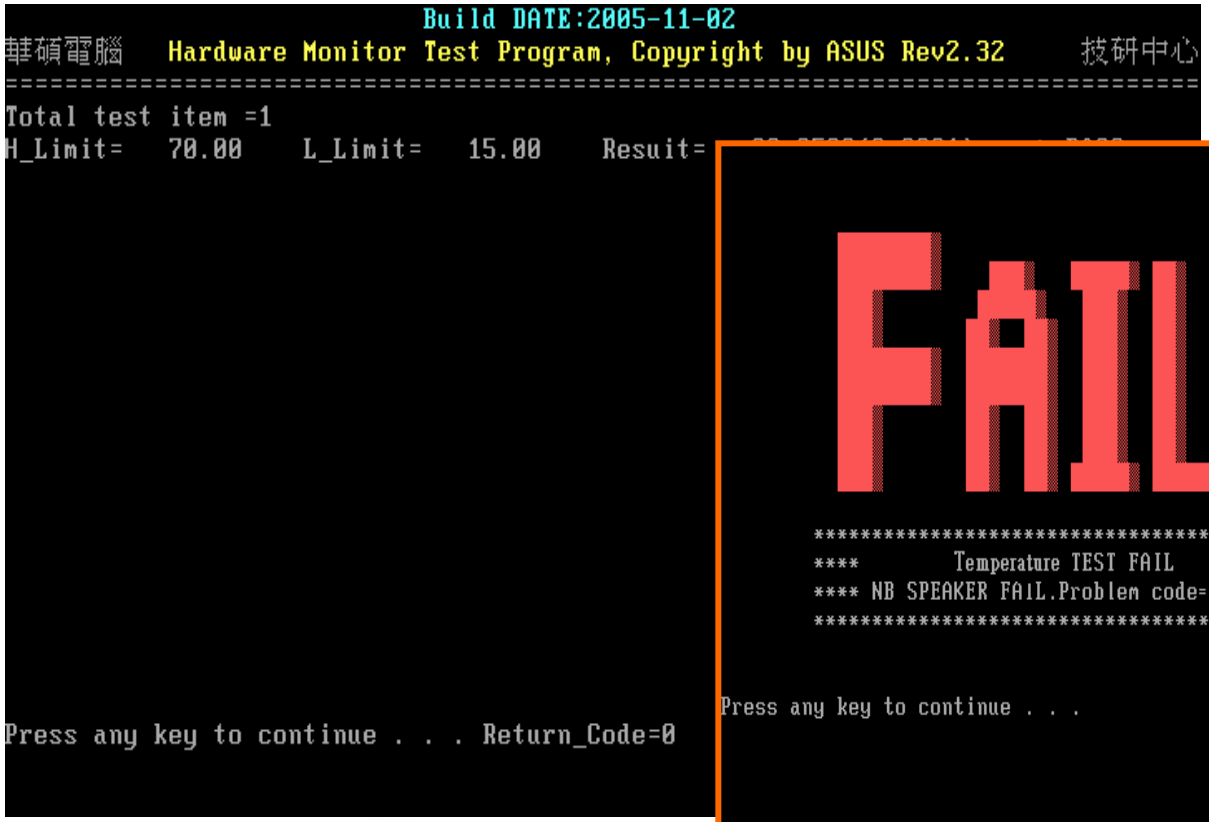
Check CPU SPEC

Confirm the CPU spec
Check CPU spec same with your fixture
Check Front side bus speed is real (The speed does match that of BIOS setup)


DMI Utility Rev 1.26 Built Date:06/06/2003
SMBIOS Structure Table Address:F000:94A0
Entry Point:F000:94C0
DMI Revision:2.3
Structure Numbers:38
Socket Type : Socket 478
Manufacturer : Intel
Version : Intel(R) Pentium(R) M processor 1.73GHz
Max./Cur./Ext.(MHz) : 1733/1733/133
Please confirm the CPU Spec.
T.C.
Return Code = 1
Press any key to continue . . .

Temperature Test

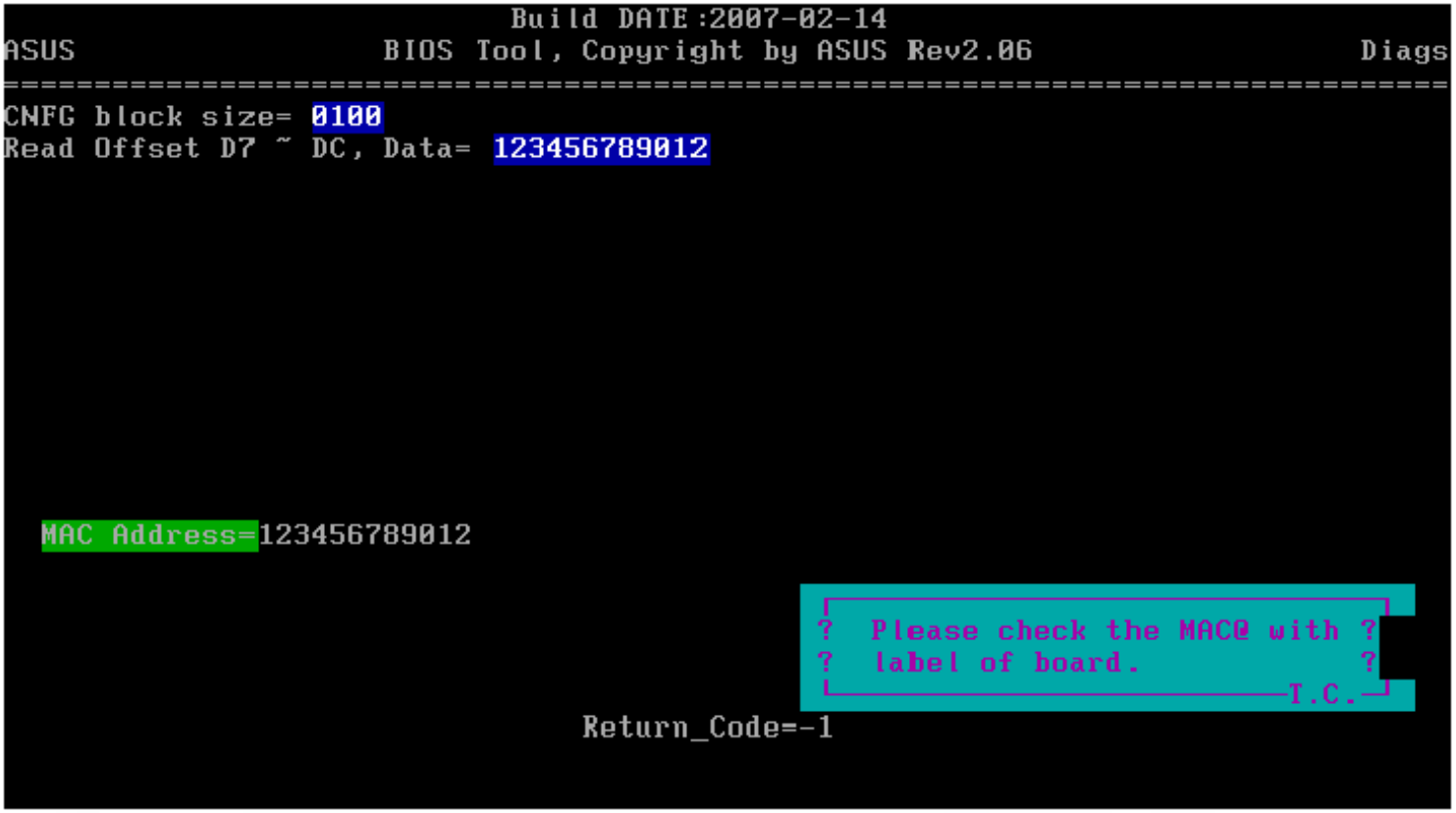
Temperature Test


Build DATE:2005-11-02
華碩電腦 Hardware Monitor Test Program, Copyright by ASUS Rev2.32 技研中心
Total test item =1
H_Limit= 70.00 L_Limit= 15.00 Resuit=
Press any key to continue . . . Return_Code=0

Test fail will show this PIC

Check MAC

Check MAC

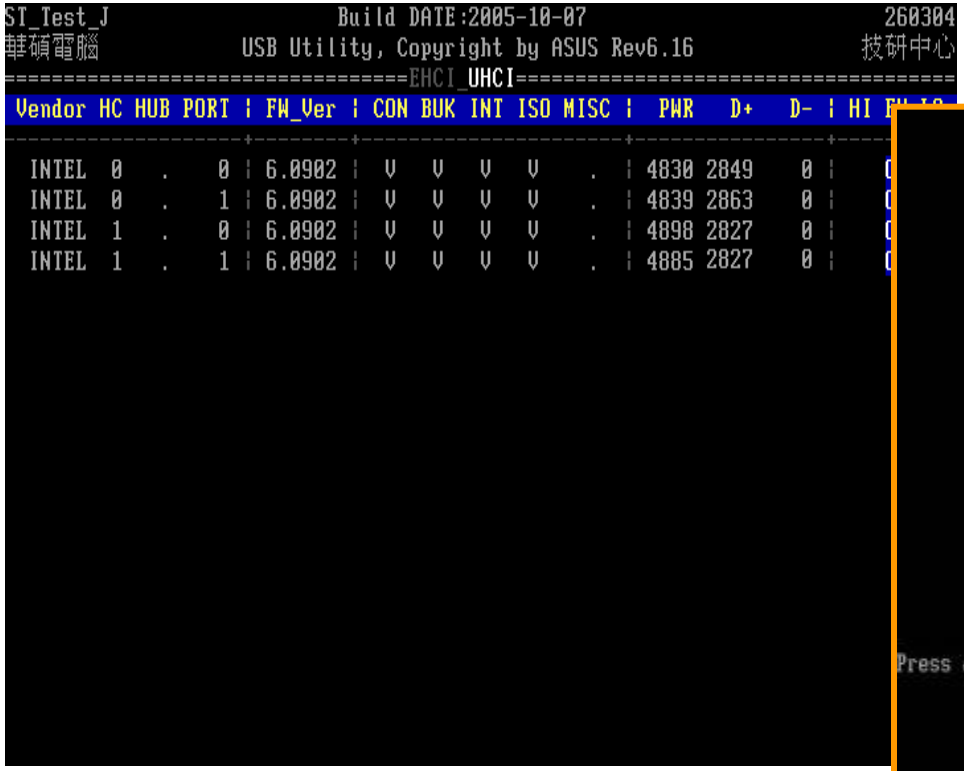

Build DATE:2007-02-14
ASUS BIOS Tool, Copyright by ASUS Rev2.06 Diags
CNFG block size= 0100
Read Offset D7 ~ DC, Data= 123456789012
MAC Address=123456789012
? Please check the MAC@ with ?
? label of board. ?
T.C.
Return_Code=-1

Input MAC address

Make sure MAC address is correct, if not please type the right MAC address. Then save this file!

USB Test

USB Test


ST_Test_J
Build DATE:2005-10-07
260304
華碩電腦
USB Utility, Copyright by ASUS Rev6.16
技研中心
EHCI_UHCI
Vendor HC HUB PORT | FW_Ver | CON BUK INT ISO MISC | PWR D+ D- | HI
INTEL 0 . 0 | 6.0902 | V V V V . | 4830 2849 0
INTEL 0 . 1 | 6.0902 | V V V V . | 4839 2863 0
INTEL 1 . 0 | 6.0902 | V V V V . | 4898 2827 0
INTEL 1 . 1 | 6.0902 | V V V V . | 4885 2827 0

Test fail will show this PIC

Touchpad Test

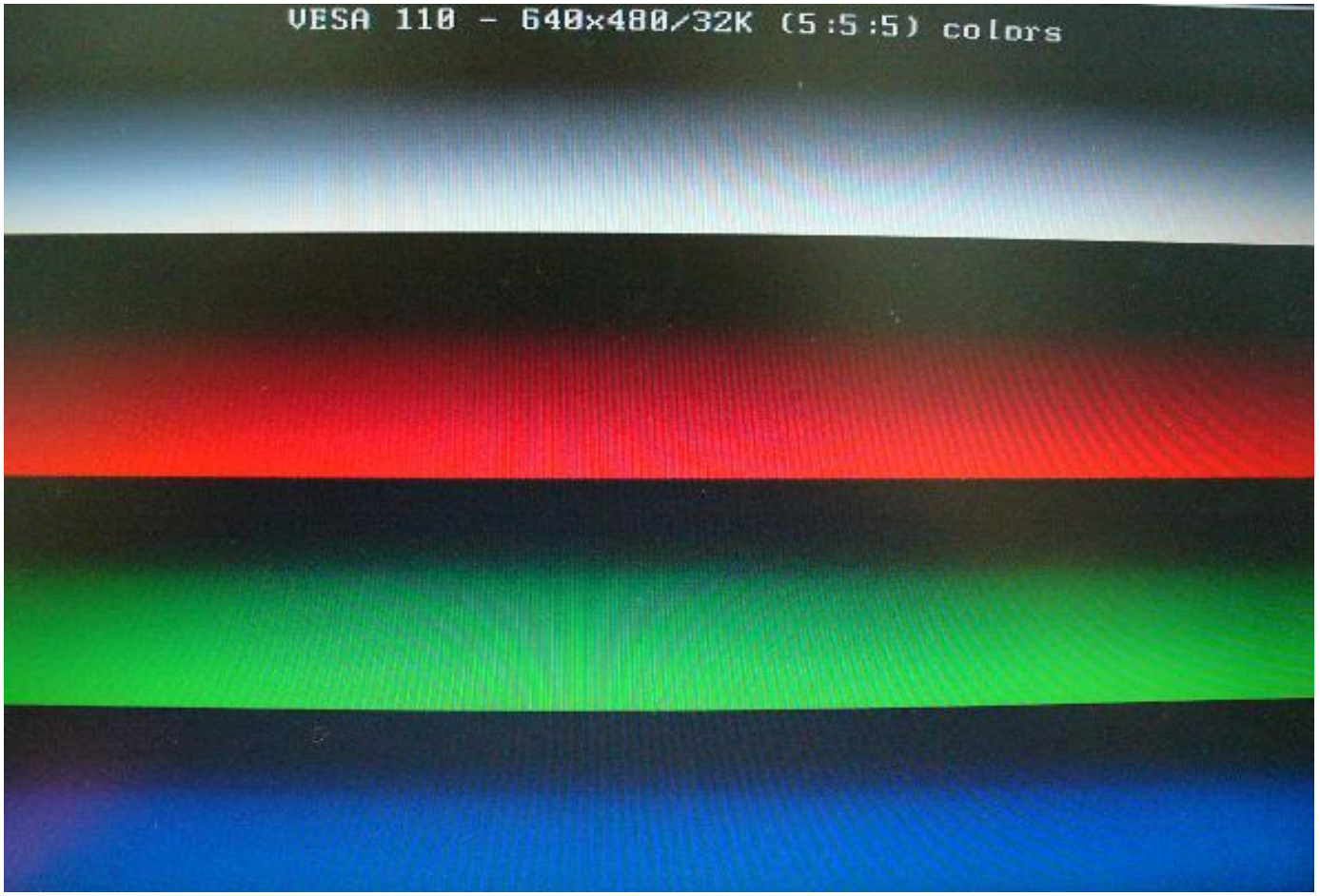
PAD Test

When your finger touch the pad and move one direction, the bule sign move the same direction with your finger.

EXIT：Move the bule sign to EXIT area,and press the LEFT + RIGHT button

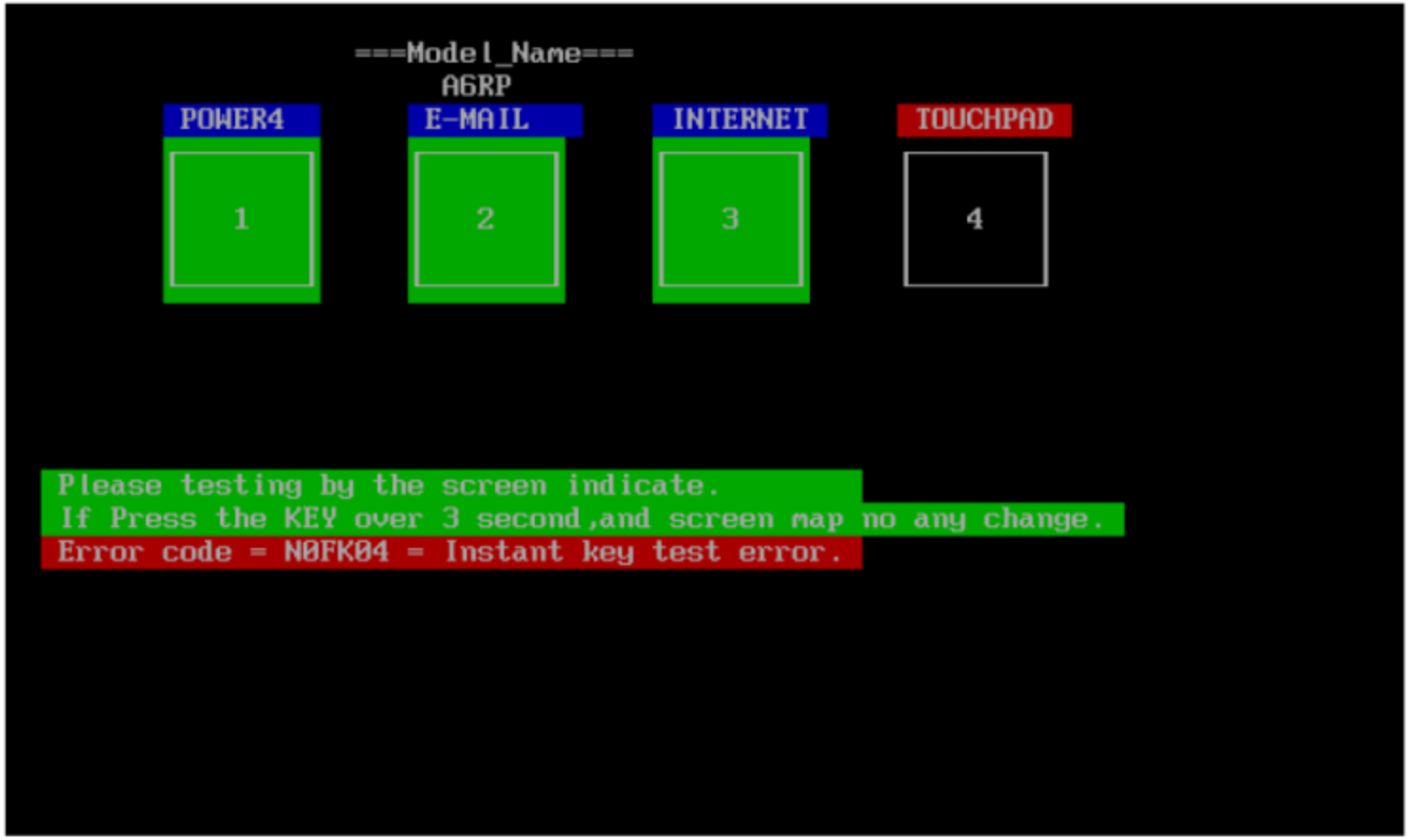
LCDRGB Test

LCDRGB Test
If you find the vertical wave and horizontal wave between the LCD RGB Test,It has problem.



Instant Setup

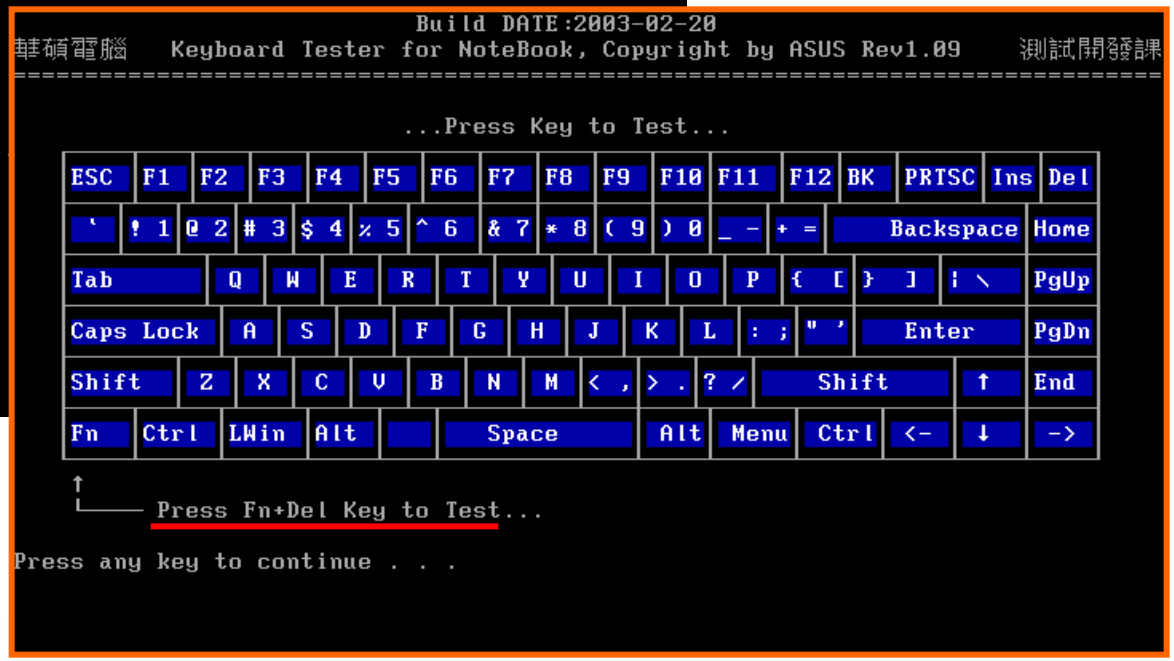
Press the instant key button 3 seconds ,
the grids change to green color.



Keyboard Test

KEYBOARD Test

Choice one language for the Keyboard, and then into next screen.

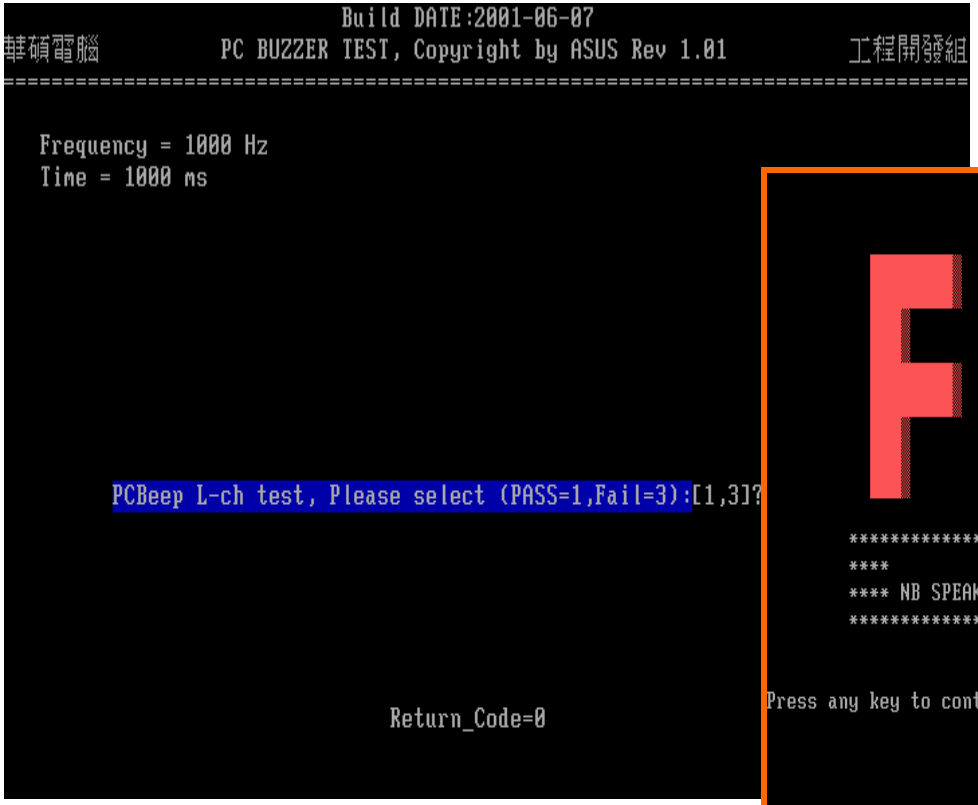

Build DATE:2003-02-20
華碩電腦 Keyboard Tester for NoteBook, Copyright by ASUS Rev1.09 測試開發課
...Press Key to Test...
ESC F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 BK PRTSC Ins Del
` ! 1 @ 2 # 3 $ 4 % 5 ^ 6 & 7 * 8 (9) 0 _ - + = Backspace Home
Tab Q W E R T Y U I O P { [}] | \ PgUp
Caps Lock A S D F G H J K L : ; " ' Enter PgDn
Shift Z X C V B N M < , > . ? / Shift ↑ End
Fn Ctrl LWin Alt Space Alt Menu Ctrl <- ↓ ->
Press Fn+Del Key to Test...
Press any key to continue . . .

Please check the keyboard function. Press all the key at the keyboard. then the program can exit and continue.

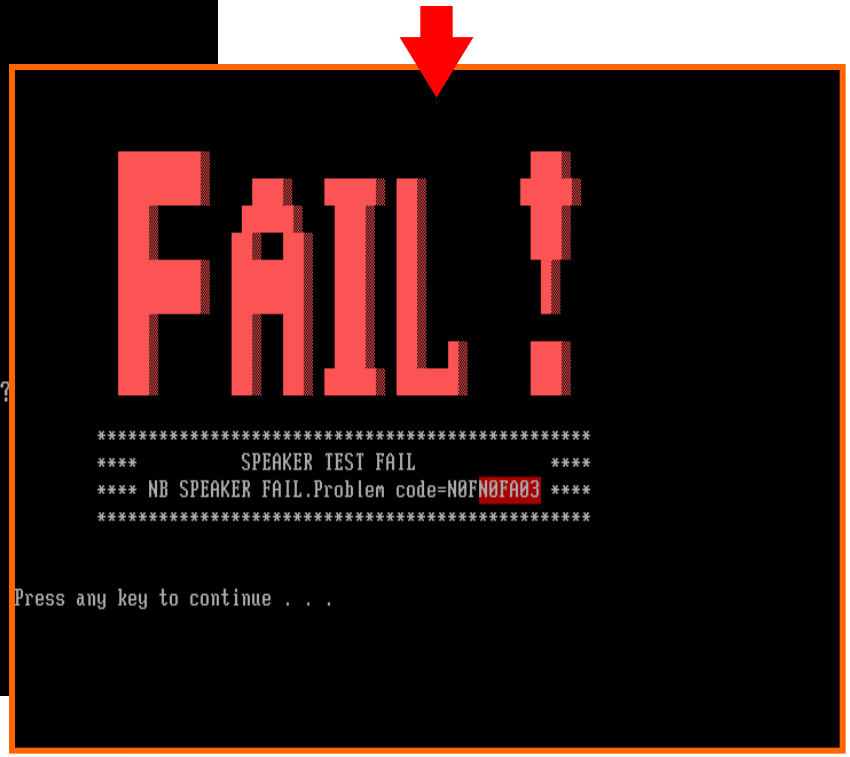
If any key isn't change to Bule colour, it's means the test program is fail.

Speaker Test

Speaker Test

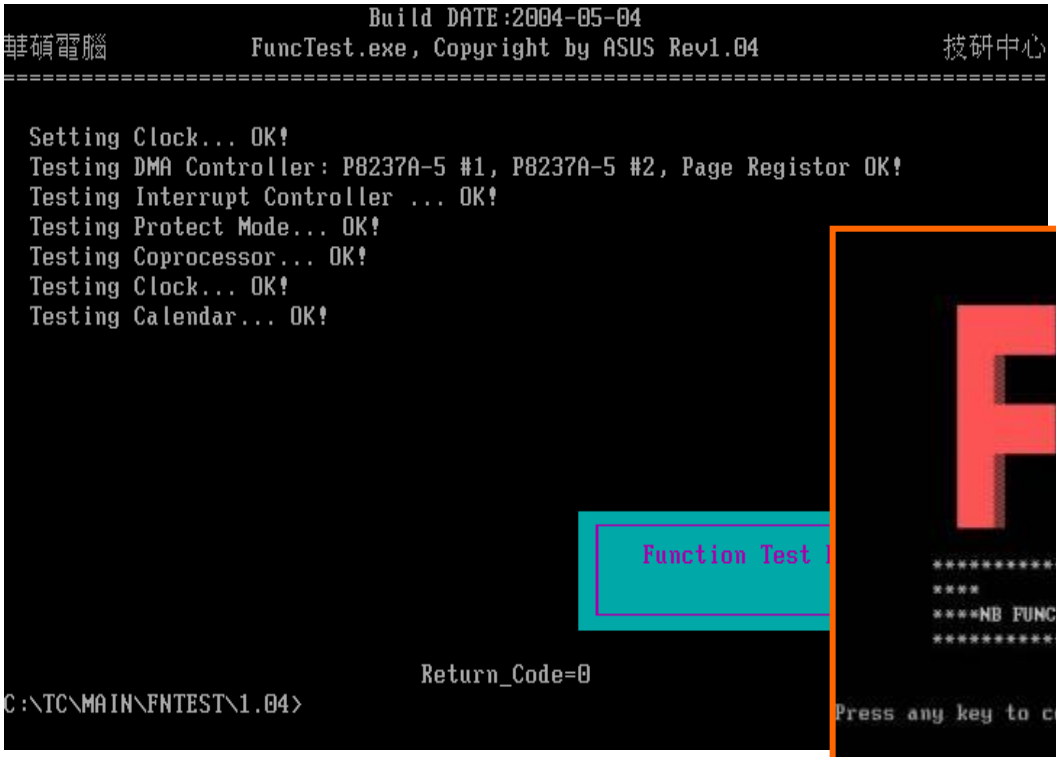

Build DATE:2001-06-07
華碩電腦 PC BUZZER TEST, Copyright by ASUS Rev 1.01 工程開發組
Frequency = 1000 Hz
Time = 1000 ms
PCBeep L-ch test, Please select (PASS=1,Fail=3):[1,3]?
Return_Code=0

Test fail will show this PIC



Function Test

Function Test



Test fail will show this PIC

FAN Test

FAN Test

Unable to wheel or Speed Error on FAN

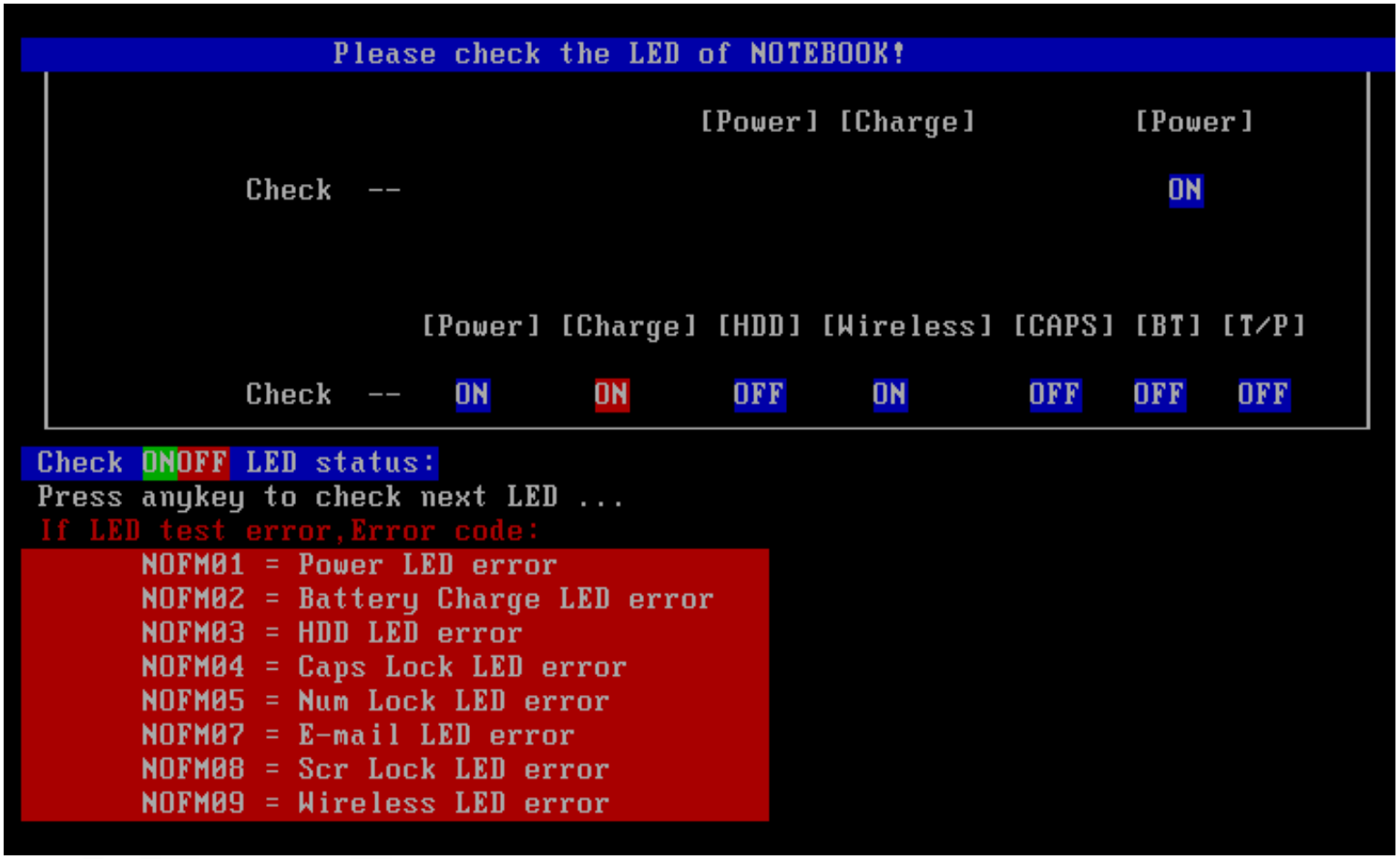
Test fail will show this PIC

V6V
... Enable the fan ...
Return_Code=0
... Delay Function, Build DATE:1998-09-01, Copywrite by ASU
... Delay 3000 milliseconds ... Press ESC to exit ...
2817/3000
FAIL!
FAN IEST FAIL
****NB FUNCTION IEST FAIL.Problen code-NOFF02
Press any key to continue . . .

LEDALL Test

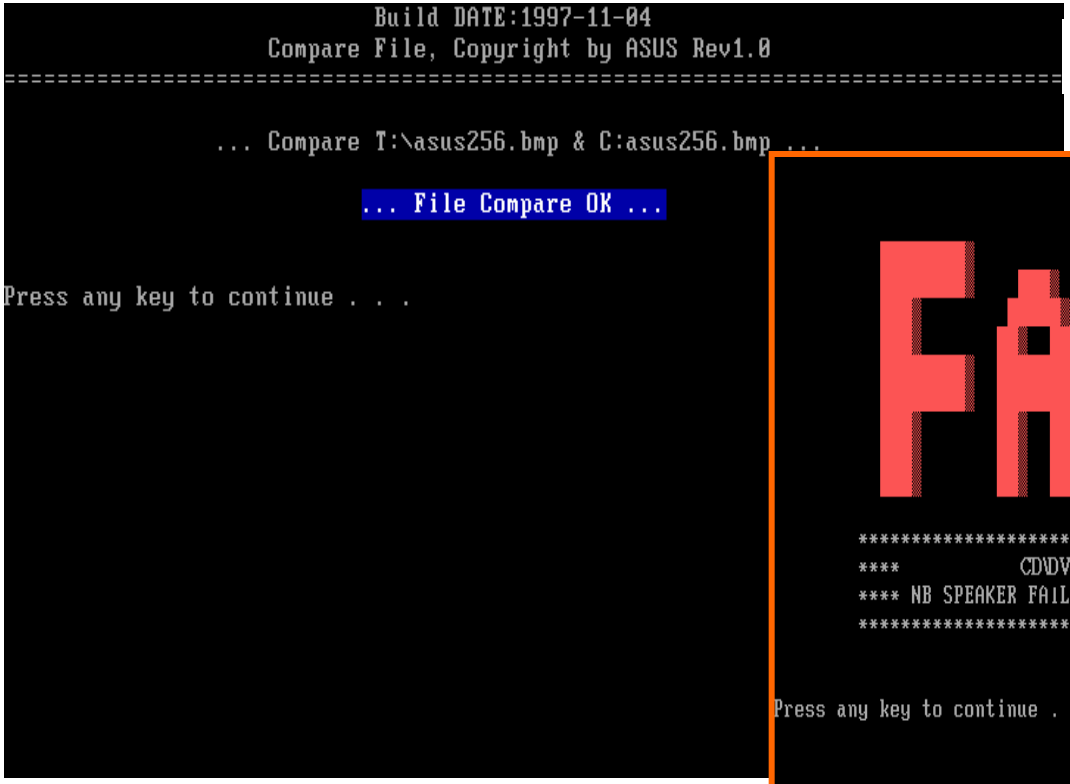
LEDALL Test

Check the light of LEDS,If the notebook's LEDS are different to screen display, that's fail.


Please check the LED of NOTEBOOK!
[Power] [Charge] [Power]
Check -- ON
[Power] [Charge] [HDD] [Wireless] [CAPS] [BT] [T/P]
Check -- ON ON OFF ON OFF OFF OFF
Check ONOFF LED status:
Press anykey to check next LED ...
If LED test error,Error code:
NOFM01 = Power LED error
NOFM02 = Battery Charge LED error
NOFM03 = HDD LED error
NOFM04 = Caps Lock LED error
NOFM05 = Num Lock LED error
NOFM07 = E-mail LED error
NOFM08 = Scr Lock LED error
NOFM09 = Wireless LED error

CD ROM Test

CD ROM Test

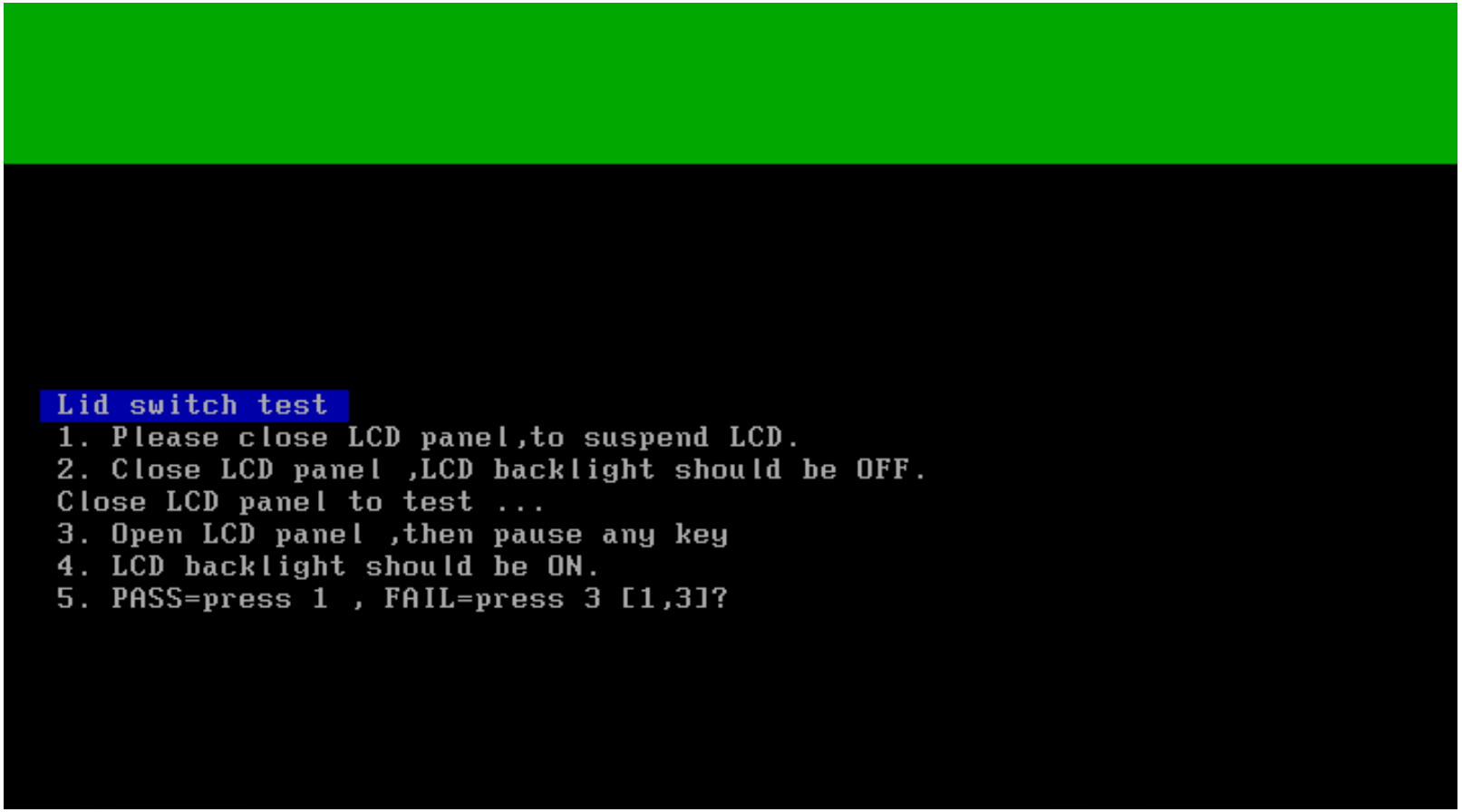

Build DATE:1997-11-04
Compare File, Copyright by ASUS Rev1.0
... Compare T:\asus256.bmp & C:asus256.bmp ...
... File Compare OK ...
Press any key to continue . . .

Test fail will show this PIC

LID Switch Test

LID Switch Test

Please run test according to the words in below picture


Lid switch test
1. Please close LCD panel,to suspend LCD.
2. Close LCD panel ,LCD backlight should be OFF.
Close LCD panel to test ...
3. Open LCD panel ,then pause any key
4. LCD backlight should be ON.
5. PASS=press 1 , FAIL=press 3 [1,3]?

HDD Test

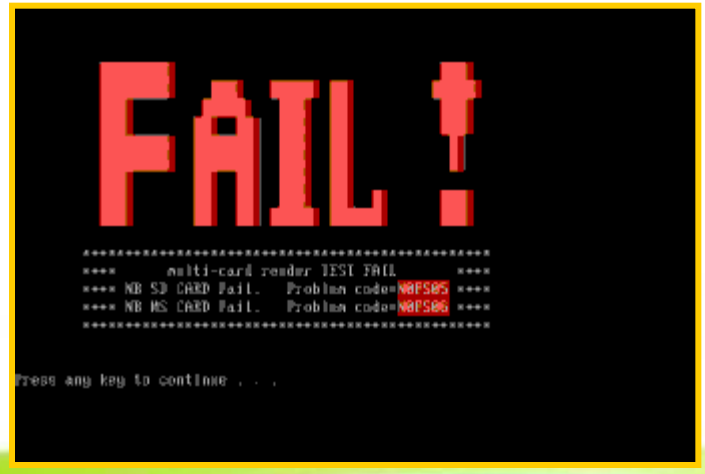
HDD Test

CARD Test

CARD Test

1.please insert the MS-card into card-Reader(Picture1)

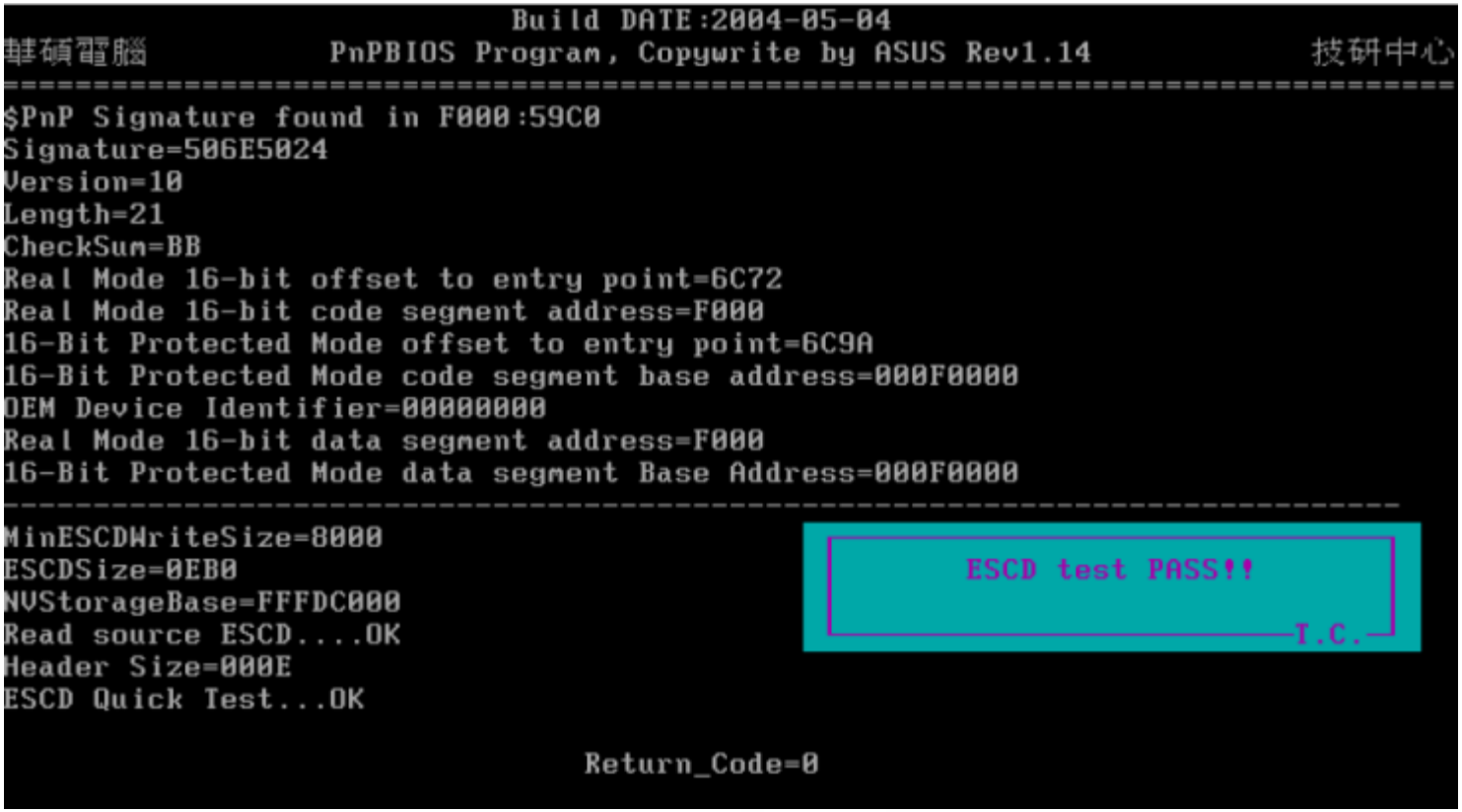
2.please change MS-card to SD-card(Picture2)


FAIL!
multi-card reader TEST FAIL
NB SD CARD Fail. Problem code=0AF505
NB MS CARD Fail. Problem code=0AF506
Press any key to continue . . .

Test fail will show this PIC

ESCD Test

ESCD Test



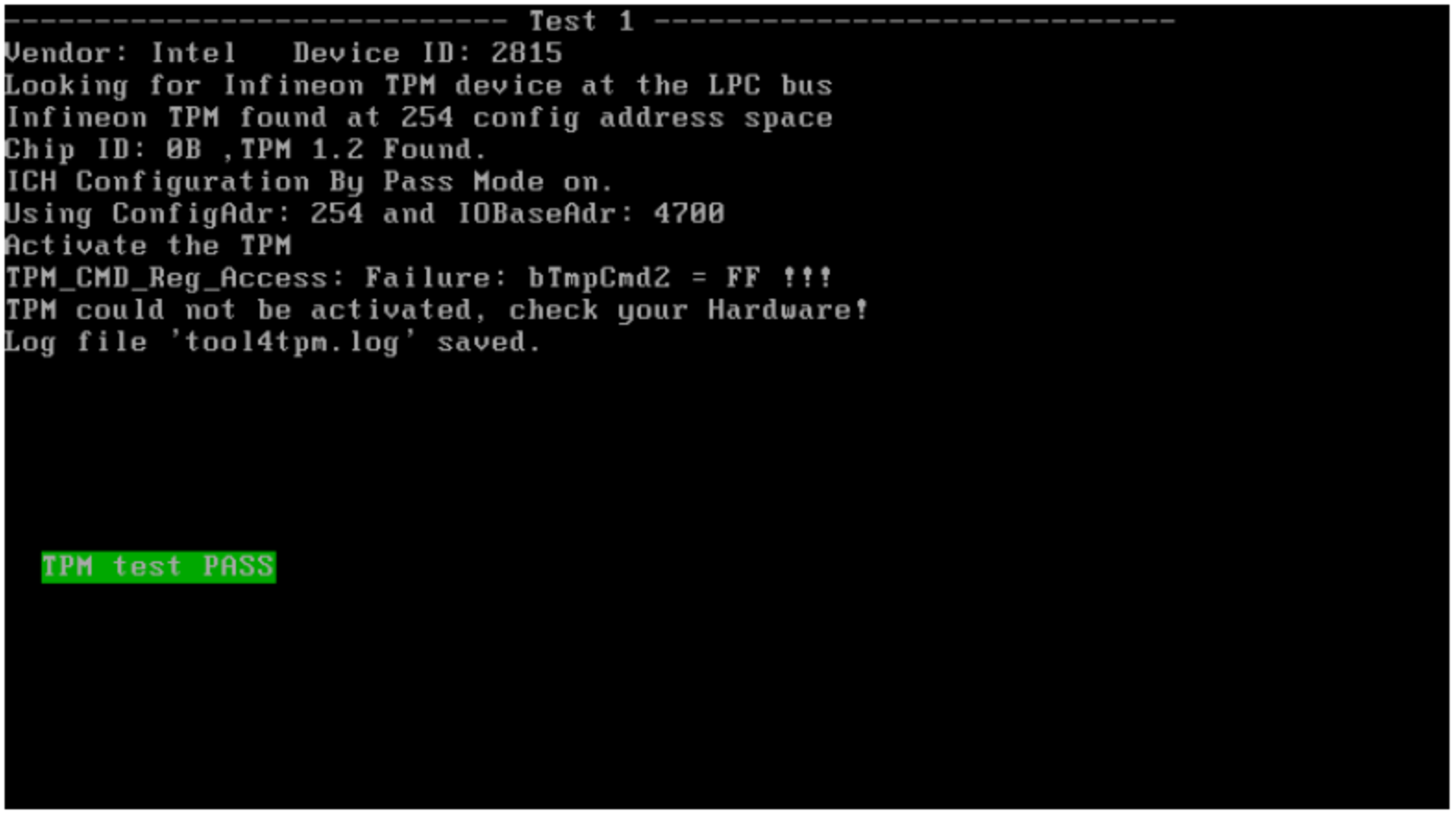
MEMSIZE Test

MEMSIZE Test

Build DATE:2007-01-10
ASUS Memory Utility, Copyright by ASUS Rev1.12 Diags
Memory Module Information:
DIMM0 = 2048 MB, Type:SDRAM, Synchronous, Speed=0 MHz
DIMM1 = 2048 MB, Type:SDRAM, Synchronous, Speed=0 MHz
Total Memory Size = 4096 MB
4096 MB
Please confirm the memsize.
T.C.
Return_Code=-1
Press any key to continue . . .

TPM Test

TPM Test


---------- Test 1 ----------
Vendor: Intel Device ID: 2815
Looking for Infineon TPM device at the LPC bus
Infineon TPM found at 254 config address space
Chip ID: 0B ,TPM 1.2 Found.
ICH Configuration By Pass Mode on.
Using ConfigAdr: 254 and IOBaseAdr: 4700
Activate the TPM
TPM_CMD_Reg_Access: Failure: bTmpCmd2 = FF !!!
TPM could not be activated, check your Hardware!
Log file 'tool4tpm.log' saved.
TPM test PASS

Battery Test

BATTERY Test

Test fail will show this PIC

Chapter 5 WTP TEST SOP

ASUSTeK COMPUTER INC.	WTP Test SOP	Doc. No: Date: Mar. 04. 2011 Revision: 1.2D Page: Grade:

Rev.	Modification	Modify description	Issue div.	Originator
0309	V02		GRMA	Sumu

1. OBJECTIVES 1
2. SCOPE 1
3. DOWNLOAD 1
4. UPDATE : 1
5. EQUIPMENT 2
6. BIOS SETUP 2
7. NETWORK SETUP 3
8. PRODUCT SELECT 4
9. TEST FLOW 5
10. TEST INTERFACE 6
11. FUNCTION TEST: 8
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AGING TEST 29

LAN MAC WRITER 31

Authorize by		Review by		Originator by	Sumu

Form No : D2-001-11 Rev.01